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<400> 412

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

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&lt;210&gt; 414

&lt;211&gt; 1849

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 414

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&lt;211&gt; 2555

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

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<210> 419  
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 <213> Homo sapiens

<400> 420  
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 <211> 1209  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 551  
 <212> DNA  
 <213> Homo sapiens

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 <222> (1) ... (551)  
 <223> n = a,t,c or g

<400> 426						
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&lt;210&gt; 427

&lt;211&gt; 1579

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 427

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&lt;210&gt; 428

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

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&lt;210&gt; 429

&lt;211&gt; 1567

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 429

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&lt;210&gt; 430

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 430

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&lt;210&gt; 431

&lt;211&gt; 1524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 431

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&lt;210&gt; 432

&lt;211&gt; 1908

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 432

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&lt;210&gt; 433

&lt;211&gt; 1714

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 433

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&lt;210&gt; 434

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 434

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&lt;210&gt; 435

&lt;211&gt; 1893

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 435

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&lt;210&gt; 436

&lt;211&gt; 1968

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 436

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&lt;210&gt; 437

&lt;211&gt; 422

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 437

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

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&lt;210&gt; 439

&lt;211&gt; 1689

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 439

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

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&lt;211&gt; 2674

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 451

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&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 452

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&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 453

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 <212> DNA  
 <213> Homo sapiens

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<400> 456

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 777  
 <212> DNA  
 <213> Homo sapiens

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 <211> 859  
 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 461

&lt;211&gt; 1975

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 461

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 468

&lt;211&gt; 1927

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1154  
 <212> DNA  
 <213> Homo sapiens

<400> 471

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 <212> DNA  
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<400> 472

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&lt;211&gt; 959

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

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&lt;211&gt; 3652

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



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3652

&lt;210&gt; 478

&lt;211&gt; 2477

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;210&gt; 487

&lt;211&gt; 1228

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; n = a,t,c or g

&lt;400&gt; 487

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 <223> n = a,t,c or g

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 513

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&lt;211&gt; 1731

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 517

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&lt;400&gt; 518

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 519

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 <212> DNA  
 <213> Homo sapiens

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<210> 533
<211> 1986
<212> DNA
<213> Homo sapiens

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<210> 534
<211> 1891
<212> DNA
<213> Homo sapiens

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<210> 535

<211> 1874

<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

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&lt;211&gt; 1895

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

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<211> 1864
<212> DNA
<213> Homo sapiens

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<223> n = a,t,c or g

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 <212> DNA  
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<212> DNA  
<213> Homo sapiens

<400> 550

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<212> DNA  
<213> Homo sapiens

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<223> n = a,t,c or g

<400> 551

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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<400> 554

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 <212> DNA  
 <213> Homo sapiens

<400> 555

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&lt;211&gt; 1331

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

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&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 569

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&lt;211&gt; 928

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 574

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 577

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<212> DNA

<213> Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 591

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 596

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 597

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<212> DNA
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&lt;213&gt; Homo sapiens

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<400> 604



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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 605

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&lt;211&gt; 2513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 606

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&lt;213&gt; Homo sapiens

&lt;400&gt; 607

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&lt;211&gt; 1163

&lt;212&gt; DNA

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&lt;400&gt; 613

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&lt;211&gt; 2428

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&lt;213&gt; Homo sapiens

&lt;400&gt; 614

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&lt;211&gt; 1906

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 627

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 628

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 629

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 631

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&lt;213&gt; Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 639
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<223> n = a,t,c or g

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&lt;210&gt; 640

&lt;211&gt; 1210

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 640

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&lt;211&gt; 1166

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n = a,t,c or g

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 ttgatatggg cgtctgtaaa ggatttgtag aagatttaga tgaatcggtt aaagaaaatc 180  
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 tggaaccaat ttggaatgaa gctggtcttg agatgaaaag cattggttct ccagttaagg 300  
 ctggaaagat ggatgctact tcctattcta gcattgcttc agagtttga gttcgagggt 360  
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 <212> DNA  
 <213> Homo sapiens

<400> 653  
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 cggtcactt cactgtgcgc gaggcacccc agatctacag cctctcctct tccagcatgg 660  
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<210> 654  
 <211> 1725  
 <212> DNA

&lt;213&gt; Homo sapiens

<400> 654

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&lt;210&gt; 655

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 655

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 <212> DNA  
 <213> Homo sapiens

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 tcaactgtcca cgtgtctgct gaagaacact ttcatTTTgt aagccagtgc tgcgaaggaa 360  
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 agagtctcgt gctgaaaggc tgttccaacg tcagtaacgc cactgtcag ttctgtctg 600  
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 gcttaacccc cactgtcga ccaaccactt cccacaacgt gggctccaaa gcttccctct 720  
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 caaaaaaaaa aaacatt 977

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 <211> 746  
 <212> DNA  
 <213> Homo sapiens

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 gagatcggca ccgagatcag ccgcaagatc cggagtgcc aataaggggaa attacaagaa 180  
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 aaaagtcagg accaaatgac agaggatctg tccctgtttc tagggaacaa cacaattcga 300  
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 ttcagtcggg gagatgagag gaggcattgaa gctgcagtgc caccacttgg ccattcctag 480  
 cgcgagacct gaaaaaagag attccagagt ttctacaagt tcgcaggagt caaaaaccac 540  
 aaatgtcaga cagacttacg atgatggagc tgcaaccgga ctaattgtcaa cagtgaacct 600  
 ttgagggagc cagaccctc tgaagatgtg attgatatta agccagaacc agatgatctc 660  
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 <211> 559  
 <212> DNA  
 <213> Homo sapiens

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 gggcagcgga agcgcccca

<210> 659  
 <211> 538  
 <212> DNA  
 <213> Homo sapiens

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 acaggacaga gacagctgcc cgggaggatg ggagaacaga aagaggagg aaacgccgag 180  
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 aaggcagaga aagcaagca agaccagact cctcatccgg taacactgtg tcaggtcatt 360  
 gccctccac ccgcggccca accccataac tgaaaacaag taggaacctg gataaaatag 420  
 tcttaacaat tttttttttg agacggagtc ttgtgtgtt gccaggctg gactgcagt 480  
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<210> 660  
 <211> 735  
 <212> DNA  
 <213> Homo sapiens

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 accccacgag gcgctcagca cccagggaag gcgctgtgt ccccgatgct ggctcctccc 180  
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 <212> DNA  
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<210> 662  
 <211> 1118  
 <212> DNA  
 <213> Homo sapiens

<400> 662						
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<210> 663  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 663						
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gtgggaggat	cacttgagcc	caggagggtg	aggctgcagc	aagccatgat	tgtgccacta	480
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caacaacaaa	aaaaaa					556

<210> 664  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 664						
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<210> 665

<211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(411)  
 <223> n = a,t,c or g

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 ctgaattatc caatgaggag aggaatcttc tctcagatgc tcataccaat gctgtatgag 180  
 cccgtaggtc atcttggatg ggcgcacgac gtatcgaaca aaagaccgaa ggtgctgaca 240  
 cacagcagca gatggctcca gactgcagag agatttttgc gacggagcta agagatatct 300  
 gcgatgatgt actgtctctt ttggaaaagc tcttgatccc caatgcttca catgcataga 360  
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<210> 666  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 666  
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<210> 667  
 <211> 1991  
 <212> DNA  
 <213> Homo sapiens

<400> 667  
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<210> 668  
 <211> 1156  
 <212> DNA  
 <213> Homo sapiens

<400> 668						
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<210> 669  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<400> 669  
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 aattttaaatt tctctttact ggacattgtc ttccacctcc cagagcattt cttggaaaat 180  
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 ctgtagtccc agctactccg gaggtgagg caggagaatg gcttgagcct gggaggcgga 480  
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<210> 670  
 <211> 682  
 <212> DNA  
 <213> Homo sapiens

<400> 670  
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 cccctggctt ggaagtgcct tt 682

<210> 671  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 671

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<210> 672  
 <211> 1038  
 <212> DNA  
 <213> Homo sapiens

<400> 672						
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<210> 673  
 <211> 676  
 <212> DNA  
 <213> Homo sapiens

<400> 673						
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<210> 674  
 <211> 418  
 <212> DNA  
 <213> Homo sapiens

<400> 674						
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<210> 675  
 <211> 1423  
 <212> DNA  
 <213> Homo sapiens

<400> 675						
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<210> 676  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<400> 676  
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 ttaggaagag tggaaaaaag tgtagaagct cactgtggag cagtacttgc aggaagatgg 540  
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<210> 677  
 <211> 1258  
 <212> DNA  
 <213> Homo sapiens

<400> 677  
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<210> 678  
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 <212> DNA  
 <213> Homo sapiens

<220> .  
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 <222> (1)...(1289)  
 <223> n = a,t,c or g

<400> 678

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<210> 679  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<400> 679

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<210> 680  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens

<400> 680						
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<210> 681  
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 <212> DNA  
 <213> Homo sapiens

<400> 681						
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<210> 682  
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 <212> DNA  
 <213> Homo sapiens

<400> 682						
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<210> 683  
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 <212> DNA  
 <213> Homo sapiens

<400> 683						
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<210> 684  
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 <212> DNA  
 <213> Homo sapiens

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<210> 685  
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 <212> DNA  
 <213> Homo sapiens  
  
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 <212> DNA  
 <213> Homo sapiens

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ct						962

<210> 687  
 <211> 676  
 <212> DNA  
 <213> Homo sapiens

<400> 687						
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<210> 688  
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 <212> DNA  
 <213> Homo sapiens

<400> 688						
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<210> 689  
 <211> 116

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 689

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&lt;210&gt; 690

&lt;211&gt; 509

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 690

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&lt;210&gt; 691

&lt;211&gt; 1362

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 691

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&lt;210&gt; 692

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 692

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&lt;210&gt; 693

&lt;211&gt; 1671

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 693

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<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n = a,t,c or g

<400> 694

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<211> 630

<212> DNA

<213> Homo sapiens

<400> 695

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&lt;210&gt; 696

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
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 <212> DNA  
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 <213> Homo sapiens

<400> 703

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 <211> 473  
 <212> DNA  
 <213> Homo sapiens

<400> 704

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 <212> DNA  
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&lt;211&gt; 894

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 706

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&lt;210&gt; 707

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(410)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 707

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<210> 710  
 <211> 478  
 <212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 710

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&lt;210&gt; 711

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 711

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&lt;210&gt; 712

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 712

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<210> 713  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 713  
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 tgcccttcta cgcccagaca cagactttgg gggaaacatg aagtcgggtc tcacctggaa 480  
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<210> 714  
 <211> 2468  
 <212> DNA  
 <213> Homo sapiens

<400> 714  
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 gatgctggag gacagtcaga gaagaacaga agaggaaaaa ggaaagaagc tcatatccgg 240  
 agatattcca ggccactccc agggcagtggt gcaagatatg gtgagcatcc tccagttagt 300  
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aatacatata taattaataa ataaaacatc aaagaccagc cgacctaaact ccatctaaaa 2400
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<210> 715

<211> 924

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (924)

<223> n = a,t,c or g

<400> 715

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atgaacttgc tcacaacatc cgccgccact gtgacttgca gtcatcatcc attaccacaa 180
aattagttgc aggatggcta ctcgatatcc tccacacatg atcatcagta tttgcctcct 240
gtgtcccaac cggcctgagt caaggttacg actcactgat taaaaagagg gactttttca 300
aatactttgc acttttgatt gtgtattatg gataccaagg aagagaagaa ggaacggaaa 360
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gacaatcaaa acaaaacaca tgataaaaaa gagaagaaga tgggtggttca gaagcccat 660
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aacatcactc ccaataaatt ggtggaactg aataaacttt tcacacatac tattgttcca 780
ggccagggtcc tttttgtgcc agatgccaac tctccttcca gtaccttaag gctatcatca 840
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```

<210> 716

<211> 679

<212> DNA

<213> Homo sapiens

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<400> 716
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ccttccgggt ggtgggagag aagcagctcc cgcaggagat tattttcctg gtctggctgc    180
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caagttttca tcgagtttgg agttttccac caaatgaaaa tacaggaaag gaggtgacgt    300
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tttctgtat gcattggatg gaagtgcacg tagaaagcag tgttctcaca tcattttata    480
atgctgagga tgaatcaaat cttctcttac ctaaaactacc tacactgcca aaaaactata    540
gcaacacctc aaaaatattt agtgaagaaa attctgatga aattattaag ctcttgggag    600
acgtcaggct taatattctc gtccttggag gaagctctgg atttattgag ctttatgctt    660
atggaatggt taaaattgc
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```

<210> 717
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = a,t,c or g

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<400> 717
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actcctgaaa gggcgcaac tcaattactt gatccttata tgccccaacg gggactcata    180
ctacgtttcc cgtgaacacg tgcagtccaa accccgcccc tgatatttat ctcagtggac    240
ggtggccgga aaaggacaat ggtttccatg tcagcggata aacgctctcc cctcggtctc    300
cggacgcgac ggaggtcgta gtagtagtga gtacgtgctg aggagcaaag gagtaaccaa    360
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aatacaaggg gaacctgctg ctgaaacca tcgtggaagt tgcaaggccag gatatcagcc    600
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ctgacaccct cgccccaac cctcctttaa agatccgcaa gcacgaattc caccacatgg    780
nataagggtc gtcaatgnnn nnnnaagggg natcaanccc c
                                                821

```

```

<210> 718
<211> 480
<212> DNA
<213> Homo sapiens

```

```

<400> 718
ccggattccg ggtcgacgat ttcgtgcggc ttttgtgttg ggcagcgca atgtggcgag    60

```

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ctcgggtgcgt ctccgctgct ccttccccctt atccctggga ggtccaagtg gtccccgcgc 120
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cggagactgg gaaatggatt cagtgtcatt tgaagatgtg gctgtggcct ttactcagga 240
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cttcaggaac ctggcttctg taggaaacaa atcagaagac cagaatatcc aagatgactt 360
caaaaatcct gggagaaatc taagcagtc tgtggtagag agactgtttg aaattaaaga 420
aggcagtcaa tatggagaaa ccttcagcca ggattcaaat ttgaatctga ataagatagt 480

```

<210> 719  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

```

<400> 719
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caggggcctc aggggttttg cctcctgccc gctcccgcat cttcaagata atcgtgatcg 180
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accgcaccga ggccacgata ggggtggatt tccgagaacg agcggtgagg attgatgggg 300
agcgcaccaa gatccagcta tgggacacag caggacaaga acgattcaga aagagcatgg 360
ttcagcacta ctacagaaat gtacatgctg ttgtcttcgt gtatgatatg accaacatgg 420
ctagttttca tagcctacca tcttgatag aagaatgcaa acaacat 467

```

<210> 720  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

```

<400> 720
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gagtctgatg ttctgcattt ccagtttgaa cagcaaggag atgtggtctt gcagaaaatg 180
aatcttttga gacagcagaa tttattttgt gatgtatcaa ttacattaa tgacactgag 240
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ctcacacagt caaaacatgt cagaatcacc atottacaga gtgcagaagt tggcagaaaa 360
ttgttactgt cttgctatac tggagcactt gaagttaaaa ggaaagagct tttgaaatac 420
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gtcaagttct

```

<210> 721  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<400> 721  
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tttgaaagc agcagtggcc cccacatggc catgctccat gccgccccgc cgcccgctggg 180  
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agcagctgct gggcaggaac atttccctgg ctgtggccac cagcagcccg aactggcca 660  
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<210> 722  
<211> 677  
<212> DNA  
<213> Homo sapiens

<400> 722  
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gcgtggaaga cctcgccccg ctccccttct gggccgaggc tccgcttaag tgaaggcctg 180  
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caaaatcagc gccggtg 677

<210> 723  
<211> 600  
<212> DNA  
<213> Homo sapiens

<400> 723  
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<210> 724  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 724						
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ctaggaaaca	agcaattttg	ttccttcaaa	ataagaacca	agactcagag	cttctgccga	180
aatgaatata	gcctgactgg	actgtgtaat	cggtcatcct	gtcccctggc	aaatagtcag	240
tatgccacta	ttaaagaaga	gaaaggacag	tgctacttgt	atatgaaggt	tatagaacga	300
gcggcttttc	ctcggcgtct	ctgggaacgg	gtccggctta	gtaaaaacta	tgagaaagca	360
ctggagcaaa	tagatgaaaa	tctgatttac	tgccccgtt	tcattcgaca	caaatgtaag	420
cagagattca	ccaagatcac	ccaataccta	attogaatta	gaaaacttac	actaaagcga	480
cagaggaaac	ttgttccttt	gagtaagaag	gtggagcgta	gggagaaaag		530

<210> 725  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 725						
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tgcggcctcc	tcgcaaaaca	aggtgagtga	ctcgcgggag	caatgggagc	tgtttcaggc	180
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ggtccttt						428

<210> 726  
 <211> 859  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1) ... (859)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 726

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acaaatgaa	ttaattcga					859

&lt;210&gt; 727

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 727

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tcctaacgg	ggtgttccac	cggcgcctgc	cgaggcctag	gcctccgcag	ccgccctccg	180
tctctcagc	cccagcgtg	cgcgcgctt	gtgctcattt	ttctctgggg	aaactgaggc	240
tccgagtgcg	aaagtcagcc	gaggtcgccc	cgcgcaggac	agagaagggc	tgggggtcgg	300
ctgagccgcg	gcattcccg	gccccgctag	ggctgcagg	tctcaggatg	gcagcctcgg	360
cgcaggtgtc	tgtgacctt	gaggatgtgg	ctgtgacatt	cacccaggag	gagtggggac	420
agttggatgc	agcccagaga	accttgatc				450

&lt;210&gt; 728

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 728

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atgcctgct	gtagtcacag	gagctgtaga	gaggacccc	gtacatctga	aagccgggaa	180



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ctggatattt	cccagaagaa	tctcttcagg	gaagtgatgc	tggaaacttt	caggaacctg	300
acctctatag	gaaaaaaatg	gagtgaccag	aacattgaat	atgagtacca	aaaccccaga	360
agaagcttca	ggagtctcat	agaagagaaa	gtcaatgaaa	ttaaagaaga	cagtcattgt	420
ggagaaactt	ttacccagg					439

<210> 729  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 729						
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agccgtgtgt	actgcgtggg	cagcaactgcc	cgacagtcct	agctaaactt	cgccaactcc	120
gctgcctttg	ccgtcaccat	gccacagaat	gaatatattg	aattacaccg	taaacgctat	180
ggattccggt	tggattacca	tgagaaaaag	agaaagaagc	aaagtcgaga	ggctca	236

<210> 730  
 <211> 807  
 <212> DNA  
 <213> Homo sapiens

<400> 730						
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cttcattgag	atcctctgta	gtctggtgag	tgtagtgtcc	gactctggag	cccaggctgt	180
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tgatgctgac	tataggagat	gttattaaac	aactgattga	agcccacgag	caggggaaag	300
acatcgatct	aaataagggt	aaaaccaaga	cagctgccaa	atatggcctt	tctgcccagc	360
ccgcctgggt	ggatatcatt	gctgccgtcc	ctcctcagta	tcgcaaggtc	ttgatgcca	420
agttaaaggc	gaaacccatc	agaactgcta	gtgggattgc	tgtcgtggct	gtgatgtgca	480
aaccccacag	atgtccacac	atcagtttta	caggaaatat	atgtgtatac	tgccctgggtg	540
gacctgattc	tgattttgag	tattccaccc	agtcttacac	tggctatgag	ccaacctcca	600
tgagagctat	ccgtgccaga	tatgaccctt	tcctacagac	aagacaccga	atagaacagt	660
taaaacaact	tggtcatagt	gtggataaag	tggagtttat	tgagatgggt	ggaacgttta	720
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gacatacttc	caacaatatt	tacgagg				807

<210> 731  
 <211> 944  
 <212> DNA  
 <213> Homo sapiens

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<400> 731
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gagcaccttc cagcggcagg gctgtggtac aggttgggtg gggaggggag ccacgcggtg    180
tttggcagga aggggaggcc tctctactga ccggaagctg cgctagaaaa agaaggagga    240
gactgcgggc cagcagcgac tagtgggagt ccgatgtggg agaggggctg cggccaccgc    300
caccgccgcc gccaccagga agggcgagga cgcaggagcc aagagcaagg gacgccgcca    360
cgggtcatctt cgctgcccc gccgccctct tagagacact cattgcctat ggatcatcct    420
ctcccagctt ttgcaagcac cgggctgctc gcccgctgat tttcctctc cataggctca    480
ctgcggaggc aacggcgagg tgtccgattt gtgcacttga ggcccgcaat ccgggacggg    540
ggggaatctg cgctcctgg ccgggcatga agaccccggt tggaaaggca gctgcagggc    600
agcgggtccg gacgggctg ggccacggca gtgtgtctgt taccatgata aagaggaagg    660
ctgcacacaa gaagcatagg agccgaccca cctcccagcc tcgggggaac atcgtgggct    720
gcataattca gcacggatgg aaagatggag atgaacctct aacacagtgg aaaggaaaccg    780
ttctggatca gctcctttga ataaacctgc ccaccaccaa gaaccatac atgactttct    840
tttcattgta tcaaacgaat gtgtccaccg gtgtgagcac cagcaactca cttcttcctc    900
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```

```

<210> 732
<211> 761
<212> DNA
<213> Homo sapiens

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```

<400> 732
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gcaccgagga cgaggaggag ggggagagcc tgggagagcg cagcggggcg gaaggcggca    180
gctgcagcag cagcaggcgg tcgggagggc atggcgggga cgaagtggag ggcagcgggtg    240
tgggagctgg cgaaggagag actgtccagc acttcccgtc cgcgaggccc aagtctctaa    300
tgcagaagct ccaatgctcc ttccagacct cctggctcaa ggactttccc tggctgcgct    360
attccaagga tactggtctt atgtcttgcg gctggtgcca aaagacctct gcagatgggg    420
gaagcgtgga ccttccccca gtggggcatg atgagctttc gcgagggacc cgcaactaca    480
agaaaacctt cctcctgagg caccacgtct ctaccgagca caaactccac gaagccaacg    540
cccaggagtc agaaatacca tcagaggagg ggtactgtga ctttaatagt aggccaaatg    600
agaactctta ttgctatcaa cttctgcgac aactaaatga acagagaaag aaaggatattc    660
tttgtgatgt cagcattgtg gtaagcggaa aaatcttcaa agctcataag aacatcctgg    720
ttgcaggcag ccgtttcttt aagactttat attgcttttc a                    761

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<210> 733
<211> 523
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1) ... (523)
<223> n = a, t, c or g

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&lt;400&gt; 733

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tagggagg	cg	tgggtgtctg	aagcctccga	gcagccgcgg	ccatggcgga	tgtaaccgcc		120
cgtagtctgc		aatacgagta	caaggcgaac	tcgaatcttg	tgctccaagc	tgaccgttct		180
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ctggaggggca		cccgatatggg	agacaaggct	caacggacca	aaccgcagat	gcaggaggaa		300
agaagagcca		agcgaagaaa	gcgtgatgag	gaccggcatg	acatcaacaa	gatgaagggt		360
tatactctgc		tgctggaggg	cattgatgag	atgggtggca	tcactctaaa	gcccaaaact		420
aaagagactc		gggagacctc	tgagggtgcta	ctcagcttca	tccaggctgc	tcttggggac		480
cagccacgtg		atatacctttg	tggggcagct	gatgaagttc	tag			523

&lt;210&gt; 734

&lt;211&gt; 1341

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 734

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gccagactcc		catccaaaga	gtcataagca	gccttcttcc	cacttcttta	catgaaatac		120
atccccacct		gaacaaaggc	acacggacag	gaggaagggg	aataggactt	cgcaaaactg		180
gacaoggc		at	cttcagat	cttggactct	gaggttccgt	tggtactggg	ttcacagtta	240
caggcttcgg		atgggtctgca	cgtgctgttt	caagactaat	ggtagtctct	attgcttctg		300
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tgaaatctgc		actaaagtca	tcataactgg	gggtgactgt	ataataatag	accacctgat		420
aatattcatc		ctctcccagt	ctttcttcat	cctcatatc	ttgtcccagg	ataagtggca		480
cagcaaagat		ggctacaaag	aggacatcca	ttctggattc	tgactattg	catcaccacc		540
cagagttgcc		tttctctctg	aggcttcatc	agtctctttt	cgtcacagtg	gaaatgttct		600
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cagccatggg		ggctgcgggtg	tttttcggct	gcactttcgt	cgcgttcggc	ccggccttcg		720
cgcttttctt		gatcactgtg	gctggggacc	cgcttcgcgt	tatcatcctg	gtcgcagggt		780
gagtagaggg		cccggaagac	gcgggagagc	gtcgaagaga	gaggtgcgga	aggggctgga		840
ggaactgggg		caagcctggg	agcctgaatt	ggggacgata	agtcggagggt	gaagtgtggg		900
cggagggtgag		gggttgggtc	tgggagattt	gtcctttccc	gcagttgggt	tccaccttcc		960
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cttttcaagc		agctttggct	ggtttccctc	cttgatttct	ctggctccca	ctactattgc		1320
ttgtctcact		gccccgtgat	t					1341

&lt;210&gt; 735

&lt;211&gt; 703

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 735  
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 tctggtctgt ccaaactcct ccaggccttg gtgtgagatc acaaatgtgt cacagctgct 180  
 ggcttctcct gtgctctaca cggacctgaa ttacagcata acaacttga gcatttcagc 240  
 aaatgtagaa acaaaataca gtctttatgt gggcttggtg ctggcagtaa gctcaagtat 300  
 ttttattggc tccagcttca tactgaaaaa gaagggcctc ttgcaactgg ccagcaaggg 360  
 ctttactaga gctggacaag gtggacattc ttacctgaag gaatggctct ggtgggtagg 420  
 attgctgtca atactgtcct ggaatgcaag ggaaaaagtt gacctttgaa atattacatt 480  
 ttaaccacag acttcttgta tttctttcac cataacaata gagaaaagta cttttctttc 540  
 atattttccc acctcctaatt ttgaacaact attgtagctg catattttct caagaaagag 600  
 tacagtttcc ttgccaggac aacacggata agtgaaaggc ttctgtggct gcttgggtact 660  
 gaacaaatgg agaagaaatg aagggtgtca gcactctcct tcc 703

<210> 736  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 736  
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 ttttgagccc gtgggagctg cccacgcgg cctcgctcctg ccaacggctg gatggcggag 180  
 acgaaggacg cagcgcagat gttggtgacc ttcaaggatg tggctgtgac ctttaccggg 240  
 gaggagtga gacagctgga cctggcccag aggaccctgt accgagaggt gatgctggag 300  
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 ctaaagcatg ggcaggagct gtggatagt aagagaggcc t 401

<210> 737  
 <211> 933  
 <212> DNA  
 <213> Homo sapiens

<400> 737  
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 ccttcccagg cgcgggtgc agcagagttt cagaacaagc ttcttgaac ccatgacca 180  
 tgaagtcttg tcgacattta taccgtctga gggtagcagc tcgaaagtag aagaaagtgt 240  
 tgccagggac ggcagtatct ctttgtgtga ccctggcggc ttatgggacg ttggcttcag 300  
 acctttgtga tacaccatgc tgcgtgggac gatgacggcg tggagaggaa tgaggcctga 360  
 ggtcacactg gcttgctcc tcctagccac agcaggctgc tttgctgact tgaacgaggt 420  
 ccctcaggte accgtccagc ctgcgtccac cgtccagaag cccggaggca ctgtgatctt 480  
 gggctgcgtg gtggaacctc caaggatgaa tgtaacctgg cgcctgaatg gaaaggagct 540  
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 ccttaacaac cacactgtgg gacggtagca gtgtgtggcc cggatgcctg cgggggctgt 660  
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 tggtcgggtc cctctcatc tctcccacc tgaagccccc accattcatg ctgcctctgt 780

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<210> 738  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 738						
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ccagcagaac	gtggtgcagc	gtgtgggtggc	tctgcccctg	gtcagggcca	cgtgcaccgc	180
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cctggctgag	aactgcgtgt	gcggcctgac	caccogtgcc	ctggaccacg	cccagccgct	300
gctcgagcac	ctgcagcccc	agctggccac	tatgaacagc	ctcgctgca	ggggcctgga	360
caagctggaa	gagaagcttc	cctttctcca	gcaaccttcg	gagacggtgg	tgacctcagc	420

<210> 739  
 <211> 1248  
 <212> DNA  
 <213> Homo sapiens

<400> 739						
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tgggcccgt	gcctccactg	cctgtatagc	tgccactgga	ggaaatgcc	cagagagagg	360
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gggaggggca	ctggagaaga	gccacctca	ccagctcttg	tccacaggcc	acagccccat	840
tccttcatat	tggagcagcc	gctggaattg	ccctcctggc	ctggcctgtg	gctgatacct	900
tctaccgtat	ccaccgaaga	gagccaaga	tctctgta	gctcctattt	tttgaggttg	960
tcctggatcat	ctacttggcc	cccctatgca	tctcctcacc	ctgcatcatg	gaaccagag	1020
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acaccctgat	gtccttgctg	aagacagctg	aatgctggag	tactgtgttt	gagactgatg	1140
tgatgggtcag	ctccgatggg	gtccccttcc	tcatgcatga	tgagcacctc	agcaggacca	1200
cgaatgtagc	ctctgtatcc	ccaaccogaa	tcacagccca	cagcagtg		1248

<210> 740  
 <211> 185  
 <212>Amino acid  
 <213> Homo sapiens

<400> 740  
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 Asp Pro Ser Gly Gly Cys Arg Leu Gln Pro Ala Leu Val Gly Glu Thr  
           20                  25                  30  
 Glu Met Ser Glu Lys Glu Asn Asn Phe Pro Pro Leu Pro Lys Phe Ile  
           35                  40                  45  
 Pro Val Lys Pro Cys Phe Tyr Gln Asn Phe Ser Asp Glu Ile Pro Val  
           50                  55                  60  
 Glu His Gln Val Leu Val Lys Arg Ile Tyr Arg Leu Trp Met Phe Tyr  
           65                  70                  75                  80  
 Cys Ala Thr Leu Gly Val Asn Leu Ile Ala Cys Leu Ala Trp Trp Ile  
                   85                  90                  95  
 Gly Gly Gly Ser Gly Thr Asn Phe Gly Leu Ala Phe Val Trp Leu Leu  
           100                  105                  110  
 Leu Phe Thr Pro Cys Gly Tyr Val Cys Trp Phe Arg Pro Val Tyr Lys  
           115                  120                  125  
 Ala Phe Arg Ala Asp Ser Ser Phe Asn Phe Met Ala Phe Phe Phe Ile  
           130                  135                  140  
 Phe Arg Ser Pro Val Cys Pro Asp Arg His Pro Gly Asp Trp Leu Leu  
           145                  150                  155                  160  
 Arg Leu Gly Arg Val Arg Leu Ala Val Gly Asn Trp Ile Leu Pro Val  
                   165                  170                  175  
 Gln Pro Gly Arg Cys Arg Gly His Ala  
                   180                  185

<210> 741  
 <211> 177  
 <212>Amino acid  
 <213> Homo sapiens

<400> 741  
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 Ser Lys Gln Ala Thr Ser Pro Phe Ala Cys Ala Ala Asp Gly Glu Asp  
           20                  25                  30  
 Ala Met Thr Gln Asp Leu Thr Ser Arg Glu Lys Glu Glu Gly Ser Asp  
           35                  40                  45  
 Gln His Val Ala Ser His Leu Pro Leu His Pro Ile Met His Asn Lys  
           50                  55                  60  
 Pro His Ser Glu Glu Leu Pro Thr Leu Val Ser Thr Ile Gln Gln Asp  
           65                  70                  75                  80  
 Ala Asp Trp Asp Ser Val Leu Ser Ser Gln Gln Arg Met Glu Ser Glu  
                   85                  90                  95  
 Asn Asn Lys Leu Cys Ser Leu Tyr Ser Phe Arg Asn Thr Ser Thr Ser  
           100                  105                  110  
 Pro His Lys Pro Asp Glu Gly Ser Arg Asp Arg Glu Ile Met Thr Ser  
           115                  120                  125

Val Thr Phe Gly Thr Pro Glu Arg Arg Lys Gly Ser Leu Ala Asp Val  
 130 135 140  
 Val Asp Thr Leu Lys Gln Lys Lys Leu Glu Glu Met Thr Arg Thr Glu  
 145 150 155 160  
 Gln Glu Asp Ser Ser Cys Met Glu Lys Leu Leu Ser Lys Asp Trp Lys  
 165 170 175  
 Glu  
 177

&lt;210&gt; 742

&lt;211&gt; 434

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 742

Glu Gly Tyr Leu Thr Gly Arg Pro Thr Arg Pro Val Ala Val Arg Gly  
 1 5 10 15  
 Lys Ser Thr Ala Asp Leu Arg Met Met Gly Arg Ser Pro Gly Phe Ala  
 20 25 30  
 Met Gln His Ile Val Gly Val Pro His Val Leu Val Arg Arg Gly Leu  
 35 40 45  
 Leu Gly Arg Asp Leu Phe Met Thr Arg Thr Leu Cys Ser Pro Gly Pro  
 50 55 60  
 Ser Gln Pro Gly Glu Lys Arg Pro Glu Glu Val Ala Leu Gly Leu His  
 65 70 75 80  
 His Arg Leu Pro Ala Leu Gly Arg Ala Leu Gly His Ser Ile Gln Gln  
 85 90 95  
 Arg Ala Thr Ser Thr Ala Lys Thr Trp Trp Asp Arg Tyr Glu Glu Phe  
 100 105 110  
 Val Gly Leu Asn Glu Val Arg Glu Ala Gln Gly Lys Val Thr Glu Ala  
 115 120 125  
 Glu Lys Val Phe Met Val Ala Arg Gly Leu Val Arg Glu Ala Arg Glu  
 130 135 140  
 Asp Leu Glu Val His Gln Ala Lys Leu Lys Glu Val Arg Asp Arg Leu  
 145 150 155 160  
 Asp Arg Val Ser Arg Glu Asp Ser Gln Tyr Leu Glu Leu Ala Thr Leu  
 165 170 175  
 Glu His Arg Met Leu Gln Glu Glu Lys Arg Leu Arg Thr Ala Tyr Leu  
 180 185 190  
 Arg Ala Glu Asp Ser Glu Arg Glu Lys Phe Ser Leu Phe Ser Ala Ala  
 195 200 205  
 Val Arg Glu Ser His Glu Lys Glu Arg Thr Arg Ala Glu Arg Thr Lys  
 210 215 220  
 Asn Trp Ser Leu Ile Gly Ser Val Leu Gly Ala Leu Ile Gly Val Ala  
 225 230 235 240  
 Gly Ser Thr Tyr Val Asn Arg Val Arg Leu Gln Glu Leu Lys Ala Leu  
 245 250 255  
 Leu Leu Glu Ala Gln Lys Gly Pro Val Ser Leu Gln Glu Ala Ile Arg  
 260 265 270  
 Glu Gln Ala Ser Ser Tyr Ser Arg Gln Gln Arg Asp Leu His Asn Leu  
 275 280 285  
 Met Val Asp Leu Arg Gly Leu Val His Ala Ala Gly Pro Gly Gln Asp  
 290 295 300  
 Ser Gly Ser Gln Ala Gly Ser Pro Pro Thr Arg Asp Arg Asp Val Asp  
 305 310 315 320  
 Val Leu Ser Ala Ala Leu Lys Glu Gln Leu Ser His Ser Arg Gln Val  
 325 330 335  
 His Ser Cys Leu Glu Gly Leu Arg Glu Gln Leu Asp Gly Leu Glu Lys  
 340 345 350

Thr Cys Ser Gln Met Ala Gly Val Val Gln Leu Val Lys Ser Ala Ala  
 355 360 365  
 His Pro Gly Leu Val Glu Pro Ala Asp Gly Ala Met Pro Ser Phe Leu  
 370 375 380  
 Leu Glu Gln Gly Ser Met Ile Leu Ala Leu Ser Asp Thr Glu Gln Arg  
 385 390 395 400  
 Leu Glu Ala Gln Val Asn Arg Asn Thr Ile Tyr Ser Thr Leu Val Thr  
 405 410 415  
 Cys Val Thr Phe Val Ala Thr Leu Pro Val Leu Tyr Met Leu Phe Lys  
 420 425 430  
 Ala Ser  
 434

<210> 743  
 <211> 211  
 <212> Amino acid  
 <213> Homo sapiens

<400> 743  
 Asn Leu Pro Pro Leu Thr Pro Gln Pro Gly Pro Arg Leu Ala Gly Ser  
 1 5 10 15  
 Gly Pro Ser His Trp Phe Ser Pro Leu Ser Leu Pro Val Ala Ser Lys  
 20 25 30  
 Ala Pro Gly Thr Met Ala Gln Ala Leu Gly Glu Asp Leu Val Gln Pro  
 35 40 45  
 Pro Glu Leu Gln Asp Asp Ser Ser Ser Leu Gly Ser Asp Ser Glu Leu  
 50 55 60  
 Ser Gly Pro Gly Pro Tyr Arg Gln Ala Asp Arg Tyr Gly Phe Ile Gly  
 65 70 75 80  
 Gly Ser Ser Ala Glu Pro Gly Pro Gly His Pro Pro Ala Asp Leu Ile  
 85 90 95  
 Arg Gln Arg Glu Met Lys Trp Val Glu Met Thr Ser His Trp Glu Lys  
 100 105 110  
 Thr Met Ser Arg Arg Tyr Lys Lys Val Lys Met Gln Cys Arg Lys Gly  
 115 120 125  
 Ile Pro Ser Ala Leu Arg Ala Arg Cys Trp Pro Leu Leu Cys Gly Ala  
 130 135 140  
 His Val Cys Gln Lys Asn Ser Pro Gly Thr Tyr Gln Glu Leu Ala Glu  
 145 150 155 160  
 Ala Pro Gly Asp Pro Gln Trp Met Glu Thr Ile Gly Arg Asp Leu His  
 165 170 175  
 Arg Gln Phe Pro Leu His Glu Met Phe Val Ser Pro Gln Gly His Gly  
 180 185 190  
 Gln Gln Gly Leu Leu Gln Val Leu Lys Ala Tyr Thr Leu Tyr Arg Pro  
 195 200 205  
 Glu Gln Gly  
 210 211

<210> 744  
 <211> 55  
 <212> Amino acid  
 <213> Homo sapiens

<400> 744



Leu Arg Gly Met Ala Ala Ala Ala Gly Pro Ala Ala Ser Gln Arg  
 1 5 10 15  
 Phe Phe Gln Ser Phe Ser Asp Ala Leu Ile Asp Gln Asp Pro Gln Ala  
 20 25 30  
 Ala Leu Glu Val Gly Glu Pro Phe Leu Leu Pro Pro Leu Pro Ala Asp  
 35 40 45  
 Pro Pro Pro Ser Ser Thr Ala  
 50 55

<210> 745  
 <211> 182  
 <212> Amino acid  
 <213> Homo sapiens

<400> 745  
 Trp Ala Cys Phe Arg Ser Ala His Cys Ser Arg His Leu Arg Asn Arg  
 1 5 10 15  
 Ile Phe Met Tyr Leu Tyr Trp Asp Lys Thr Arg Ser Pro Val Cys Lys  
 20 25 30  
 Gly Pro Ala Leu Arg Glu Glu Arg Pro Gln Pro Arg Leu Lys Leu Glu  
 35 40 45  
 Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu His Leu Asn Pro Asp Gln  
 50 55 60  
 Leu Glu Ala Val Glu Lys Tyr Glu Glu Val Leu His Asn Leu Glu Phe  
 65 70 75 80  
 Ala Lys Glu Leu Gln Lys Thr Phe Ser Gly Leu Ser Leu Asp Leu Leu  
 85 90 95  
 Lys Ala Gln Lys Lys Ala Gln Arg Arg Glu His Met Leu Lys Leu Glu  
 100 105 110  
 Ala Glu Lys Lys Lys Leu Arg Thr Ile Leu Gln Val Gln Tyr Val Leu  
 115 120 125  
 Gln Asn Leu Thr Gln Glu His Val Gln Lys Asp Phe Lys Gly Gly Leu  
 130 135 140  
 Asn Gly Ala Val Tyr Leu Pro Ser Lys Glu Leu Asp Tyr Leu Ile Lys  
 145 150 155 160  
 Phe Ser Lys Leu Thr Cys Pro Glu Arg Asn Glu Ser Leu Arg Gln Thr  
 165 170 175  
 Leu Glu Gly Ser Thr Val  
 180 182

<210> 746  
 <211> 136  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(136)  
 <223> X = any amino acid or stop code

<400> 746  
 Xaa Ala Gly Val Gln Met Lys Leu Glu Phe Leu Gln Arg Lys Phe Trp  
 1 5 10 15  
 Ala Ala Thr Arg Gln Cys Ser Thr Val Asp Gly Pro Cys Thr Gln Ser

```

      20      25      30
Cys Glu Asp Ser Asp Leu Asp Cys Phe Val Ile Asp Asn Asn Gly Phe
      35      40      45
Ile Leu Ile Ser Lys Arg Ser Arg Glu Thr Gly Arg Phe Leu Gly Glu
      50      55      60
Val Asp Gly Ala Val Leu Thr Gln Leu Leu Ser Met Gly Val Phe Ser
      65      70      75      80
Gln Val Thr Met Tyr Asp Tyr Gln Ala Met Cys Lys Pro Ser Ser His
      85      90      95
His His Ser Ala Ala Gln Pro Leu Val Ser Pro Ile Ser Ala Phe Leu
      100      105      110
Thr Ala Thr Arg Trp Leu Leu Gln Glu Leu Val Leu Phe Leu Leu Glu
      115      120      125
Trp Ser Val Trp Gly Ser Xaa *
      130      135

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<210> 747
<211> 156
<212>Amino acid
<213> Homo sapiens

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```

<400> 747
Cys Arg Gly Arg Leu Ala Gln Leu Glu Glu Ala Ala Val Ala Ala Thr
  1      5      10      15
Met Ser Ala Gly Asp Ala Val Cys Thr Gly Trp Leu Val Lys Ser Pro
      20      25      30
Pro Glu Arg Lys Leu Gln Arg Tyr Ala Trp Arg Lys Arg Trp Phe Val
      35      40      45
Leu Arg Arg Gly Arg Met Ser Gly Asn Pro Asp Val Leu Glu Tyr Tyr
      50      55      60
Arg Asn Lys His Ser Ser Lys Pro Ile Arg Val Ile Asp Leu Ser Glu
      65      70      75      80
Cys Ala Val Trp Lys His Val Gly Pro Ser Phe Val Arg Lys Glu Phe
      85      90      95
Gln Asn Asn Phe Val Phe Ile Val Lys Thr Thr Ser Arg Thr Phe Tyr
      100      105      110
Leu Val Ala Lys Thr Glu Gln Glu Met Gln Val Trp Val His Ser Ile
      115      120      125
Ser Gln Val Cys Asn Leu Gly His Leu Glu Asp Gly Ala Ala Asp Ser
      130      135      140
Met Glu Ser Leu Ser Tyr Thr Arg Ser Tyr Leu Gln
      145      150      155 156

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<210> 748
<211> 55
<212>Amino acid
<213> Homo sapiens

```

```

<400> 748
Ile Pro Ala Val Pro Leu Thr Ser Cys Val Thr Val Gly Ser Tyr Ser
  1      5      10      15
Leu Ser Val Arg Asp Tyr Asp Pro Arg Gln Gly Asp Thr Val Lys His
      20      25      30
Tyr Lys Ile Arg Thr Leu Asp Lys Arg Gly Phe Tyr Ile Ser Pro Arg

```

```
<210> 749
<211> 381
<212> Amino acid
<213> Homo sapiens
```

411

<210> 750  
 <211> 296  
 <212>Amino acid  
 <213> Homo sapiens

<400> 750  
 Ser Pro Leu Arg Tyr Arg Ala Gly Gln Ser Gly Ser Thr Ile Ser Ser  
 1 5 10 15  
 Ser Ser Cys Ala Met Trp Arg Cys Gly Gly Arg Gln Gly Leu Cys Val  
 20 25 30  
 Leu Arg Arg Leu Ser Gly Gly His Ala His His Arg Ala Trp Arg Trp  
 35 40 45  
 Asn Ser Asn Arg Ala Cys Glu Arg Ala Leu Gln Tyr Lys Leu Gly Asp  
 50 55 60  
 Lys Ile His Gly Phe Thr Val Asn Gln Val Thr Ser Val Pro Glu Leu  
 65 70 75 80  
 Phe Leu Thr Ala Val Lys Leu Thr His Asp Asp Thr Gly Ala Arg Tyr  
 85 90 95  
 Leu His Leu Ala Arg Glu Asp Thr Asn Asn Leu Phe Ser Val Gln Phe  
 100 105 110  
 Arg Thr Thr Pro Met Asp Ser Thr Gly Val Pro His Ile Leu Glu His  
 115 120 125  
 Thr Val Leu Cys Gly Ser Gln Lys Tyr Pro Cys Arg Asp Pro Phe Phe  
 130 135 140  
 Lys Met Leu Asn Arg Ser Leu Ser Thr Phe Met Asn Ala Phe Thr Ala  
 145 150 155 160  
 Ser Asp Tyr Thr Leu Tyr Pro Phe Ser Thr Gln Asn Pro Lys Asp Phe  
 165 170 175  
 Gln Asn Leu Leu Ser Val Tyr Leu Asp Ala Thr Phe Phe Pro Cys Leu  
 180 185 190  
 Arg Glu Leu Asp Phe Trp Gln Glu Gly Trp Arg Leu Glu His Glu Asn  
 195 200 205  
 Pro Ser Asp Pro Gln Thr Pro Leu Val Phe Lys Gly Val Val Phe Asn  
 210 215 220  
 Glu Met Lys Gly Ala Phe Thr Asp Asn Glu Arg Ile Phe Ser Gln His  
 225 230 235 240  
 Leu Gln Asn Arg Leu Leu Pro Asp His Thr Tyr Ser Val Val Ser Gly  
 245 250 255  
 Gly Asp Pro Leu Cys Ile Pro Glu Leu Thr Trp Glu Gln Leu Lys Gln  
 260 265 270  
 Phe His Ala Thr His Tyr His Pro Ser Asn Ala Arg Phe Phe Thr Tyr  
 275 280 285  
 Gly Asn Phe Pro Leu Asp Gln His  
 290 295 296

<210> 751  
 <211> 163  
 <212>Amino acid  
 <213> Homo sapiens

<400> 751  
 Arg Gly Ala Lys Ala Lys Ser Ala Val Leu Pro Pro Gly Pro Pro Cys  
 1 5 10 15  
 Ser Ser Ile Leu Ile Leu Ser Pro Pro Ala Pro Leu Thr Pro Arg Ser

```

      20      25      30
Pro Gly Thr Glu Ala Thr Arg Pro Thr Ala Met Ser Lys Ser Leu Lys
      35      40      45
Lys Lys Ser His Trp Thr Ser Lys Val His Glu Ser Val Ile Gly Arg
      50      55      60
Asn Pro Glu Gly Gln Leu Gly Phe Glu Leu Lys Gly Gly Ala Glu Asn
      65      70      75      80
Gly Gln Phe Pro Tyr Leu Gly Glu Val Lys Pro Gly Lys Val Ala Tyr
      85      90      95
Glu Ser Gly Ser Lys Leu Val Ser Glu Glu Leu Leu Glu Val Asn
      100      105      110
Glu Thr Pro Val Ala Gly Leu Thr Ile Arg Asp Val Leu Ala Val Ile
      115      120      125
Lys His Cys Lys Asp Pro Leu Arg Leu Lys Cys Val Lys Gln Gly Glu
      130      135      140
Ser Ser Gly Leu Leu Ser Val Leu Pro Gly Gly Gly Thr Ala Arg Gly
      145      150      155      160
Ala Gly Gln
      163

```

<210> 752  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 752
Ser His Arg Pro Gln Pro Asp Ala Trp Arg Gln Gly Asn Ala Phe Gln
  1      5      10      15
Cys Val Gln Lys Glu Lys Met Gln Val Ser Ser Ala Glu Val Arg Ile
      20      25      30
Gly Pro Met Arg Leu Thr Gln Asp Pro Ile Gln Val Leu Leu Ile Phe
      35      40      45
Ala Lys Glu Asp Ser Gln Ser Asp Gly Phe Trp Trp Ala Cys Asp Arg
      50      55      60
Ala Gly Tyr Arg Cys Asn Ile Ala Arg Thr Pro Glu Ser Ala Leu Glu
      65      70      75      80
Cys Phe Leu Asp Lys His His Glu Ile Ile Val Ile Asp His Arg Gln
      85      90      95
Thr Gln Asn
      99

```

<210> 753  
 <211> 193  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 753
Phe Arg Leu Ala Gly Cys Gly His Leu Leu Val Ser Leu Leu Gly Leu
  1      5      10      15
Leu Leu Leu Leu Ala Arg Ser Gly Thr Arg Ala Leu Val Cys Leu Pro
      20      25      30
Cys Asp Glu Ser Lys Cys Glu Glu Pro Arg Asn Cys Pro Gly Ser Ile
      35      40      45
Val Gln Gly Val Cys Gly Cys Cys Tyr Thr Cys Ala Ser Gln Arg Asn

```

```

      50              55              60
Glu Ser Cys Gly Gly Thr Phe Gly Ile Tyr Gly Thr Cys Asp Arg Gly
 65              70              75              80
Leu Arg Cys Val Ile Arg Pro Pro Leu Asn Gly Asp Ser Leu Thr Glu
      85              90              95
Tyr Glu Ala Gly Val Cys Glu Asp Glu Asn Trp Thr Asp Asp Gln Leu
      100              105              110
Leu Gly Phe Lys Pro Cys Asn Glu Asn Leu Ile Ala Gly Cys Asn Ile
      115              120              125
Ile Asn Gly Lys Cys Glu Cys Asn Thr Ile Arg Thr Cys Ser Asn Pro
      130              135              140
Phe Glu Phe Pro Ser Gln Asp Met Cys Leu Ser Ala Leu Lys Arg Ile
      145              150              155              160
Glu Glu Glu Lys Pro Asp Cys Ser Lys Ala Arg Cys Glu Val Gln Phe
      165              170              175
Ser Pro Arg Cys Pro Glu Asp Ser Val Leu Ile Glu Gly Tyr Ala Pro
      180              185              190
Pro
193

```

<210> 754  
 <211> 73  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 754
Phe Arg Met Ala Ala Asn Val Gly Ser Met Phe Gln Tyr Trp Lys Arg
 1              5              10              15
Phe Asp Leu Gln Gln Leu Gln Arg Glu Leu Asp Ala Thr Ala Thr Val
      20              25              30
Leu Ala Asn Arg Gln Asp Glu Ser Glu Gln Ser Arg Lys Arg Leu Ile
      35              40              45
Glu Gln Ser Arg Glu Phe Lys Lys Asn Thr Pro Glu Val Arg Arg Val
      50              55              60
Thr Ile Val Phe Ala Leu Lys Gly Ser
 65              70              73

```

<210> 755  
 <211> 83  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 755
Glu Thr Leu Ser Cys Arg Ile Met Asp His Pro Ser Arg Glu Lys Asp
 1              5              10              15
Glu Arg Gln Arg Thr Thr Lys Pro Met Ala Gln Arg Ser Ala His Cys
      20              25              30
Ser Arg Pro Ser Gly Ser Ser Ser Ser Gly Val Leu Met Val Gly
      35              40              45
Pro Asn Phe Arg Val Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu
      50              55              60
Leu Arg Leu Gly Glu Gly Leu Pro Gln Val Tyr Tyr Phe Gly Pro Cys
      65              70              75              80
Gly Lys Tyr

```

83

<210> 756  
 <211> 100  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(100)  
 <223> X = any amino acid or stop code

<400> 756  
 Gly Cys Cys Lys Asp Xaa His Ser Gly Val Ile Gly Arg Ser Trp Ala  
   1                  5                  10                  15  
 Met Leu Phe Ala Ser Gly Gly Phe Gln Val Lys Leu Tyr Asp Ile Glu  
                   20                  25                  30  
 Gln Gln Gln Ile Arg Asn Ala Leu Glu Asn Ile Arg Trp Ala Ser Arg  
                   35                  40                  45  
 Arg Ser Pro Glu Gly Met Glu Val Gly Leu Phe Leu Ser Val Gly Leu  
                   50                  55                  60  
 Val Cys His Ile Leu Lys Ala Met Arg Ile Cys Asp Val Thr Phe Ser  
   65                  70                  75                  80  
 Ser Asp Gly Tyr Cys Ser Ala Ser Glu Leu Val Lys Ala Arg Pro Thr  
                   85                  90                  95  
 Val Ala Gly Met  
                   100

<210> 757  
 <211> 130  
 <212>Amino acid  
 <213> Homo sapiens

<400> 757  
 Asn Ser Arg Val Asp Asp Phe Val Ser Ala Arg Pro Lys Pro Arg Pro  
   1                  5                  10                  15  
 Leu Pro Arg Ala Arg Gly Met Val Val Thr Gly Arg Glu Pro Asp  
                   20                  25                  30  
 Ser Arg Arg Gln Asp Gly Ala Met Ser Ser Ser Asp Ala Glu Asp Asp  
                   35                  40                  45  
 Phe Leu Glu Pro Ala Thr Pro Thr Ala Thr Gln Ala Gly His Ala Leu  
                   50                  55                  60  
 Pro Pro Ala Ala Thr Gly Ser Phe Leu Arg Leu Phe Pro Leu Thr Ser  
   65                  70                  75                  80  
 Glu Gly Leu Thr Ser Leu His Ala Cys Pro His Cys Gly Ala Thr Lys  
                   85                  90                  95  
 Thr Pro Cys Trp Gln Pro Cys Ser Val Gly Gly Thr Thr Ser Pro Arg  
                   100                  105                  110  
 Thr Pro Arg Ala Gly Thr Ser Ser Thr Glu Met Ala His Thr Leu Glu  
                   115                  120                  125  
 Met Cys  
                   130

<210> 758  
 <211> 121  
 <212>Amino acid  
 <213> Homo sapiens

<400> 758  
 Arg Ala Leu Trp Val Gly Gly Cys Ser Gly Glu Ala Cys Gly Ile Gly  
 1 5 10 15  
 Met Ser Gly Leu Leu Thr Asp Pro Glu Gln Arg Ala Gln Glu Pro Arg  
 20 25 30  
 Tyr Pro Gly Phe Val Leu Gly Leu Asp Val Gly Ser Ser Val Ile Arg  
 35 40 45  
 Cys His Val Tyr Asp Arg Ala Ala Arg Val Cys Gly Ser Ser Val Gln  
 50 55 60  
 Lys Val Glu Asn Leu Tyr Pro Gln Ile Gly Trp Val Glu Ile Asp Pro  
 65 70 75 80  
 Asp Val Leu Trp Ile Gln Phe Val Ala Val Ile Lys Glu Ala Val Lys  
 85 90 95  
 Ala Ala Gly Ile Gln Met Asn Gln Ile Val Gly Leu Gly Ile Ser Thr  
 100 105 110  
 Gln Arg Ala Thr Phe Ile Thr Trp Asn  
 115 120 121

<210> 759  
 <211> 210  
 <212>Amino acid  
 <213> Homo sapiens

<400> 759  
 Gly Leu Ala Ala Glu Gln Ser Met Gln Phe Val Lys Leu Trp Cys Gly  
 1 5 10 15  
 Cys Ser Gly Glu Phe Pro Thr Arg Leu Arg Arg Arg Thr Pro Leu Thr  
 20 25 30  
 Glu Ala Met Glu Gly Gly Pro Ala Val Cys Cys Gln Asp Pro Arg Ala  
 35 40 45  
 Glu Leu Val Glu Arg Val Ala Ile Asp Val Thr His Leu Glu Glu  
 50 55 60  
 Ala Asp Gly Gly Pro Glu Pro Thr Arg Asn Gly Val Asp Pro Pro Pro  
 65 70 75 80  
 Arg Ala Arg Ala Ala Ser Val Ile Pro Gly Ser Thr Ser Arg Leu Leu  
 85 90 95  
 Pro Ala Arg Pro Ser Leu Ser Ala Arg Lys Leu Ser Leu Gln Glu Arg  
 100 105 110  
 Pro Ala Gly Ser Tyr Leu Glu Ala Gln Ala Gly Pro Tyr Ala Thr Gly  
 115 120 125  
 Pro Ala Ser His Ile Ser Pro Arg Ala Trp Arg Arg Pro Thr Ile Glu  
 130 135 140  
 Ser His His Val Ala Ile Ser Asp Ala Glu Asp Cys Val Gln Leu Asn  
 145 150 155 160  
 Gln Tyr Lys Leu Gln Ser Glu Ile Gly Lys Gly Ala Tyr Gly Val Val  
 165 170 175  
 Arg Leu Ala Tyr Asn Glu Ser Glu Asp Arg His Tyr Ala Met Lys Val  
 180 185 190  
 Leu Ser Lys Lys Lys Leu Leu Lys Gln Tyr Gly Phe Pro Arg Arg Pro  
 195 200 205



Pro Pro  
210

<210> 760  
<211> 172  
<212>Amino acid  
<213> Homo sapiens

<400> 760  
Phe Val Tyr Gly Lys Pro Val Thr Leu Trp Pro Thr Ile Ser Ser Val  
1 5 10 15  
Val Pro Ser Thr Phe Leu Gly Leu Gly Asn Tyr Glu Val Glu Val Glu  
20 25 30  
Ala Glu Pro Asp Val Arg Gly Pro Glu Ile Val Thr Met Gly Glu Asn  
35 40 45  
Asp Pro Pro Ala Val Glu Ala Pro Phe Ser Phe Arg Ser Leu Phe Gly  
50 55 60  
Leu Asp Asp Leu Lys Ile Ser Pro Val Ala Pro Asp Ala Asp Ala Val  
65 70 75 80  
Ala Ala Gln Ile Leu Ser Leu Leu Pro Leu Lys Phe Phe Pro Ile Ile  
85 90 95  
Val Ile Gly Ile Ile Ala Leu Ile Leu Ala Leu Ala Ile Gly Leu Gly  
100 105 110  
Ile His Phe Asp Cys Ser Gly Lys Tyr Arg Cys Arg Ser Ser Phe Lys  
115 120 125  
Cys Ile Glu Leu Ile Ala Arg Cys Asp Gly Val Ser Asp Cys Lys Asp  
130 135 140  
Gly Glu Asp Glu Tyr Arg Cys Val Arg Val Gly Gly Gln Asn Ala Ala  
145 150 155 160  
Leu Gln Val Phe Thr Ala Ala Ser Arg Lys Thr Met  
165 170 172

<210> 761  
<211> 104  
<212>Amino acid  
<213> Homo sapiens

<400> 761  
Ser Leu Ala Met Pro Phe Gly Cys Val Thr Leu Gly Asp Lys Lys Asn  
1 5 10 15  
Tyr Asn Gln Pro Ser Glu Val Thr Asp Arg Tyr Asp Leu Gly Gln Val  
20 25 30  
Ile Lys Thr Glu Glu Phe Cys Glu Ile Phe Arg Ala Lys Asp Lys Thr  
35 40 45  
Thr Gly Lys Leu His Thr Cys Lys Lys Phe Gln Lys Arg Asp Gly Arg  
50 55 60  
Lys Val Arg Lys Ala Ala Lys Asn Glu Ile Gly Ile Leu Lys Met Val  
65 70 75 80  
Lys His Pro Asn Ile Leu Gln Leu Val Asp Val Phe Val Thr Arg Lys  
85 90 95  
Glu Tyr Phe Ile Phe Leu Glu Leu  
100 104

<210> 762  
 <211> 249  
 <212>Amino acid  
 <213> Homo sapiens

<400> 762  
 Gln Arg Arg Arg Phe Arg Ala Gly Leu Trp Gly Gly His Gly Leu Thr  
 1 5 10 15  
 Asp Gly Leu Arg Arg Asn Gly Gly Cys Gly Cys Ser Ala Arg Val Pro  
 20 25 30  
 Arg Val Gly Glu Arg Leu Arg Gly His Arg Cys Pro Asp Pro Leu Cys  
 35 40 45  
 Leu Leu Leu Asp Met Leu Phe Leu Ser Phe His Ala Gly Ser Trp Glu  
 50 55 60  
 Ser Trp Cys Cys Cys Cys Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg  
 65 70 75 80  
 Gly Gln His Trp Gln Leu Glu Met Ala Asp Thr Arg Ser Val His Glu  
 85 90 95  
 Thr Arg Phe Glu Ala Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn  
 100 105 110  
 Gly Ser Phe Gln Pro Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe  
 115 120 125  
 Tyr Lys Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe  
 130 135 140  
 Trp Asp Pro Ile Gly Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly  
 145 150 155 160  
 Asp Met Thr Lys Glu Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys  
 165 170 175  
 Lys Ile Ile Glu Thr Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu  
 180 185 190  
 Arg Val Ile Gly Pro Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly  
 195 200 205  
 Arg Ser Ser Asp Ile Thr Ser Asp Leu Gly Asn Val Leu Thr Ser Thr  
 210 215 220  
 Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu Ser Ser Asp Ser Gly  
 225 230 235 240  
 Ala Glu Ser Glu Glu Glu Glu Ala Cys  
 245 249

<210> 763  
 <211> 184  
 <212>Amino acid  
 <213> Homo sapiens

<400> 763  
 Ser Cys Phe Lys Gly Arg Thr Gly Gly Arg Ser Gly Ser Ser Gly Asp  
 1 5 10 15  
 Ser Ser Arg Trp Ala Arg Cys Gly Arg His Phe Ser Ala Ser Thr Glu  
 20 25 30  
 Glu Pro Pro Leu Ser Gln Pro Cys Ser Ala Leu Pro Arg Ser Gly Arg  
 35 40 45  
 Arg Gly Cys Ala Val Pro Ser Ser Val Thr Lys Met Leu Ser Phe Phe  
 50 55 60  
 Arg Arg Thr Leu Gly Arg Arg Ser Met Arg Lys His Ala Glu Lys Glu  
 65 70 75 80

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Arg Leu Arg Glu Ala Gln Arg Ala Ala Thr His Ile Pro Ala Ala Gly
      85          90          95
Asp Ser Lys Ser Ile Ile Thr Cys Arg Val Ser Leu Leu Asp Gly Thr
      100        105        110
Asp Val Ser Val Asp Leu Pro Lys Lys Ala Lys Gly Gln Glu Leu Phe
      115        120        125
Asp Gln Ile Met Tyr His Leu Asp Leu Ile Glu Ser Asp Tyr Phe Gly
      130        135        140
Leu Arg Phe Met Asp Ser Ala Gln Val Ala His Trp Leu Asp Gly Thr
      145        150        155        160
Lys Ser Ile Lys Lys Gln Val Lys Ile Gly Ser Pro Tyr Cys Leu His
      165        170        175
Leu Arg Val Lys Phe Tyr Ser Ser
      180        184

```

&lt;210&gt; 764

&lt;211&gt; 138

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 764

```

Glu Ser Arg Glu Arg Ser Gly Asn Arg Arg Gly Ala Glu Asp Arg Gly
  1          5          10          15
Thr Cys Gly Leu Gln Ser Pro Ser Ala Met Leu Gly Ala Lys Pro His
      20        25        30
Trp Leu Pro Gly Pro Leu His Ser Pro Gly Leu Pro Leu Val Leu Val
      35        40        45
Leu Leu Ala Leu Gly Ala Gly Trp Ala Gln Glu Gly Ser Glu Pro Val
      50        55        60
Leu Leu Glu Gly Glu Cys Leu Val Val Cys Glu Pro Gly Arg Ala Ala
      65        70        75        80
Ala Gly Gly Pro Gly Gly Ala Ala Leu Gly Glu Ala Pro Pro Gly Arg
      85        90        95
Val Ala Phe Ala Ala Val Arg Ser His His His Glu Pro Ala Gly Glu
      100       105       110
Thr Gly Asn Gly Thr Ser Gly Ala Ile Tyr Phe Asp Gln Val Leu Val
      115       120       125
Asn Glu Gly Gly Gly Phe Asp Arg Ala Ser
      130       135       138

```

&lt;210&gt; 765

&lt;211&gt; 168

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 765

```

Glu Asp Val Lys Ser Tyr Tyr Thr Val His Leu Pro Gln Leu Glu Asn
  1          5          10          15
Ile Asn Ser Gly Glu Thr Arg Thr Ile Ser His Phe His Tyr Thr Thr
      20        25        30
Trp Pro Asp Phe Gly Val Pro Gln Ser Pro Ala Ser Phe Leu Asn Phe
      35        40        45
Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Asn Pro Asp His Gly Pro
      50        55        60

```

```

Val Val Ile His Arg Ser Ala Gly Thr Gly Arg Ser Ser Thr Phe Ser
 65              70              75              80
Val Val His Thr Cys Leu Val Leu Met Glu Lys Gly Asp Asp Ile Asn
              85              90              95
Ile Lys Gln Val Leu Leu Asn Ile Arg Lys Phe Gln Met Gly Leu Ile
      100              105              110
Gln Thr Pro Asp Gln Leu Arg Phe Ser Tyr Met Ala Ile Thr Glu Gly
      115              120              125
Ala Lys Cys Val Lys Gly Asp Ser Ser Ile Gln Lys Arg Trp Lys Glu
      130              135              140
Leu Ser Lys Glu Asp Leu Pro Pro Ala Phe Asp His Ser Pro Asn Lys
145              150              155              160
Ile Met Thr Glu Lys Tyr Asn Arg
              165              168

```

```

<210> 766
<211> 255
<212>Amino acid
<213> Homo sapiens

```

```

<400> 766
Leu Asn Arg Gln Arg Cys Gly Asp Gln Val Leu Val Pro Gly Thr Gly
 1              5              10              15
Leu Ala Ala Ile Leu Arg Thr Leu Pro Met Phe His Asp Glu Glu His
      20              25              30
Ala Arg Ala Arg Gly Leu Ser Glu Asp Thr Leu Val Leu Pro Pro Ala
      35              40              45
Ser Arg Asn Gln Arg Ile Leu Tyr Thr Val Leu Glu Cys Gln Pro Leu
      50              55              60
Phe Asp Ser Ser Asp Met Thr Ile Ala Glu Trp Val Cys Leu Ala Gln
      65              70              75              80
Thr Ile Lys Arg His Tyr Glu Gln Tyr His Gly Phe Val Val Ile His
              85              90              95
Gly Thr Asp Thr Met Ala Phe Ala Ala Ser Met Leu Ser Phe Met Leu
      100              105              110
Glu Asn Leu Gln Lys Thr Val Ile Leu Thr Gly Ala Gln Val Pro Ile
      115              120              125
His Ala Leu Trp Ser Asp Gly Arg Glu Asn Leu Leu Gly Ala Leu Leu
      130              135              140
Met Ala Gly Gln Tyr Val Ile Pro Glu Val Cys Leu Phe Phe Gln Asn
145              150              155              160
Gln Leu Phe Arg Gly Asn Arg Ala Thr Lys Val Asp Ala Arg Arg Phe
      165              170              175
Ala Ala Phe Cys Ser Pro Asn Leu Leu Pro Leu Ala Thr Val Gly Ala
      180              185              190
Asp Ile Thr Ile Asn Arg Glu Leu Val Arg Lys Val Asp Gly Lys Ala
      195              200              205
Gly Leu Val Val His Ser Ser Met Glu Gln Asp Val Gly Leu Leu Arg
      210              215              220
Leu Tyr Pro Gly Ile Pro Ala Ala Leu Val Arg Ala Phe Leu Gln Pro
225              230              235              240
Pro Leu Lys Gly Val Val Met Glu Thr Phe Gly Ser Gly Asn Gly
      245              250              255

```

```

<210> 767
<211> 260
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 767

```

Leu Phe Arg Leu Ala Pro Gly Phe Leu Arg Ser Leu Ala Arg Gln Gly
 1           5           10           15
Tyr His Gln Ile Trp Ala Phe Pro Phe Leu Pro Ser Gly Ala Thr Ala
          20           25           30
Thr Trp Pro Ala Ala Ser Arg Ser Arg Ser Leu Ala Ala Arg Ser Leu
          35           40           45
Pro Arg Ser Pro Ala Arg Pro Gly Pro Asn Asp Ala Leu Leu Gly Glu
          50           55           60
His Asp Phe Arg Gly Gln Gly Val Arg Ala Gln Arg Phe Arg Phe Ser
          65           70           75           80
Glu Glu Pro Gly Pro Gly Ala Asp Gly Ala Val Leu Glu Val His Val
          85           90           95
Pro Gln Ile Gly Ala Gly Val Ser Leu Pro Gly Ile Leu Ala Ala Lys
          100          105          110
Cys Gly Ala Glu Val Ile Leu Ser Asp Ser Ser Glu Leu Pro His Cys
          115          120          125
Leu Glu Val Cys Arg Gln Ser Cys Gln Met Asn Asn Leu Pro His Leu
          130          135          140
Gln Val Val Gly Leu Thr Trp Gly His Ile Ser Trp Asp Leu Leu Ala
          145          150          155          160
Leu Pro Pro Gln Asp Ile Ile Leu Ala Ser Asp Val Phe Phe Glu Pro
          165          170          175
Glu Asp Phe Glu Asp Ile Leu Ala Thr Ile Tyr Phe Leu Met His Lys
          180          185          190
Asn Pro Lys Val Gln Leu Trp Ser Thr Tyr Gln Val Arg Ser Ala Asp
          195          200          205
Trp Ser Leu Glu Ala Leu Leu Tyr Lys Trp Asp Met Lys Cys Val His
          210          215          220
Ile Pro Leu Glu Ser Phe Asp Ala Asp Lys Glu Asp Ile Ala Glu Ser
          225          230          235          240
Thr Leu Pro Gly Arg His Thr Val Glu Met Leu Val Ile Ser Phe Ala
          245          250          255
Lys Asp Ser Leu
          260

```

&lt;210&gt; 768

&lt;211&gt; 200

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(200)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 768

```

Ser Phe Ile Tyr Lys His Thr His Arg Ala Arg Phe Gly Pro Arg Ala
 1           5           10           15
Ile Val Ala Ser Pro Ala Leu Thr Ala Gly Pro His Val Ser Leu Thr
          20           25           30
Ala Ser Cys Arg Val Gly Met Trp Val Ser Cys Ser Pro Ser Pro Phe
          35           40           45
Leu His Pro Thr Asn Thr Leu Val Ala Val Leu Glu Arg Asp Thr Leu

```

```

      50      55      60
Gly Ile Arg Glu Val Arg Leu Phe Asn Ala Val Val Arg Trp Ser Glu
 65      70      75      80
Ala Glu Cys Gln Arg Gln Gln Leu Gln Val Thr Pro Glu Asn Arg Arg
      85      90      95
Lys Val Leu Gly Lys Ala Leu Gly Leu Ile Arg Phe Pro Leu Met Thr
      100      105      110
Ile Glu Glu Phe Ala Ala Gly Asn Arg Ala Arg Ala Gln Gly Leu Val
      115      120      125
Trp Glu Gly Ser Gly Thr Gln Val Gly Ile Trp Cys Thr Glu Asp Ser
      130      135      140
Ala Pro Glu Phe Thr Ala Glu Ser Leu Ala Asp Ala Trp His Ile Gln
145      150      155      160
Ile Gly Arg Asn Leu Ala Cys Glu Asp Ala Ser Thr Trp Ala Ile Cys
      165      170      175
Xaa Pro Arg Pro Gly Ser Val Pro Thr Val His Thr Ala Arg Pro Arg
      180      185      190
Leu Ser Cys Leu Ser Ser Cys Phe
      195      200

```

&lt;210&gt; 769

&lt;211&gt; 33

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(33)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 769

```

Met Ala Ser Thr Gln Asp Ala Glu Leu Ala Val Ser Arg Xaa Arg Ala
 1      5      10      15
Ile Ala Leu Xaa Pro Gly Xaa Gln Ser Xaa Xaa Pro Ser Gln Lys Lys
      20      25      30
Lys
33

```

&lt;210&gt; 770

&lt;211&gt; 599

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 770

```

Leu Leu Lys Ser Cys Gly Val Leu Leu Ser Gly Val Cys Ile Pro Cys
 1      5      10      15
Glu Gly Lys Gly Pro Thr Val Leu Val Ile Gln Thr Ala Val Pro Gln
      20      25      30
Asp Arg Pro Thr Lys Ser Ser Met Arg Ser Ala Ala Lys Pro Trp Asn
      35      40      45
Pro Ala Ile Arg Ala Gly Gly His Gly Pro Asp Arg Val Arg Pro Leu
      50      55      60
Pro Ala Ala Ser Ser Gly Met Lys Ser Ser Lys Ser Ser Thr Ser Leu
      65      70      75      80

```

423

Leu Lys Ser His Leu Gln Gly  
595 599

<210> 771  
<211> 103  
<212> Amino acid  
<213> Homo sapiens

<400> 771  
Ser Gln Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn  
1 5 10 15  
Phe Cys Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile  
20 25 30  
Lys Ala Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu  
35 40 45  
Thr Asp Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly  
50 55 60  
Tyr Val Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu  
65 70 75 80  
Leu Thr Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val  
85 90 95  
Phe Asp Asn Gln Phe Gly Leu  
100 103

<210> 772  
<211> 218  
<212> Amino acid  
<213> Homo sapiens

<400> 772  
Pro Phe Lys Lys Met Thr Asp Leu Leu Arg Ser Val Val Thr Val Ile  
1 5 10 15  
Asp Val Phe Tyr Lys Tyr Thr Lys Gln Asp Gly Glu Cys Gly Thr Leu  
20 25 30  
Ser Lys Gly Glu Leu Lys Glu Leu Leu Glu Lys Glu Leu His Pro Val  
35 40 45  
Leu Lys Asn Pro Asp Asp Pro Asp Thr Val Asp Val Ile Met His Met  
50 55 60  
Leu Asp Arg Asp His Asp Arg Arg Leu Asp Phe Thr Glu Phe Leu Leu  
65 70 75 80  
Met Ile Phe Lys Leu Thr Met Ala Cys Asn Lys Val Leu Ser Lys Glu  
85 90 95  
Tyr Cys Lys Ala Ser Gly Ser Lys Lys His Arg Arg Gly His Arg His  
100 105 110  
Gln Glu Glu Glu Ser Glu Thr Glu Glu Asp Glu Glu Asp Thr Pro Gly  
115 120 125  
His Lys Ser Gly Tyr Arg His Ser Ser Trp Ser Glu Gly Glu Glu His  
130 135 140  
Gly Tyr Ser Ser Gly His Ser Arg Gly Thr Val Lys Cys Arg His Gly  
145 150 155 160  
Ser Asn Ser Arg Arg Leu Gly Arg Gln Gly Asn Leu Ser Ser Ser Gly  
165 170 175  
Asn Gln Glu Gly Ser Gln Lys Arg Tyr His Arg Ser Ser Cys Gly His  
180 185 190



Ser Trp Ser Gly Gly Lys Asp Arg His Gly Ser Ser Ser Val Glu Leu  
           195                          200                          205  
 Arg Glu Arg Ile Asn Lys Ser His Ile Lys  
           210                          215                          218

<210> 773  
 <211> 130  
 <212> Amino acid  
 <213> Homo sapiens

<400> 773  
 Val Pro Lys Ile Ser Gly Pro Asp His Ile Asp Phe Ile Pro Trp Asp  
   1                          5                          10                          15  
 Gln Leu Phe Met Ala Ser Ser Ser Ser Val Thr Glu Phe Leu Val Leu  
                           20                          25                          30  
 Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Val Leu Phe Ala Val Phe  
                           35                          40                          45  
 Leu Cys Leu Tyr Leu Ile Ile Leu Ser Gly Asn Ile Ile Ile Ile Ser  
                           50                          55                          60  
 Val Ile His Leu Asp His Ser Leu His Thr Pro Met Tyr Phe Phe Leu  
                           65                          70                          75                          80  
 Gly Ile Leu Ser Ile Ser Glu Ile Phe Tyr Thr Thr Val Ile Leu Pro  
                           85                          90                          95  
 Lys Met Leu Ile Asn Leu Phe Ser Val Phe Arg Thr Leu Ser Phe Val  
                           100                          105                          110  
 Ser Cys Ala Thr Gln Met Phe Tyr Glu Ile Val Gly Pro Gly Thr Gln  
                           115                          120                          125  
 Glu Arg  
           130

<210> 774  
 <211> 204  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(204)  
 <223> X = any amino acid or stop code

<400> 774  
 Asp His Ser Thr Glu Thr Pro Gly Ile Pro Ala Ala Glu Pro Val Ser  
   1                          5                          10                          15  
 His Gly Thr Gly Lys Leu Glu Arg Ala Pro Thr Leu Pro Ala Gly Ala  
                           20                          25                          30  
 Glu Leu Pro Ala Pro Ala Ala Val Pro Cys Pro Thr Leu Xaa Val Cys  
                           35                          40                          45  
 Leu Tyr Pro Gln Leu Leu Gly Leu Ser Val Ala Thr Met Val Thr Leu  
                           50                          55                          60  
 Thr Tyr Phe Gly Ala His Phe Ala Val Ile Arg Arg Ala Ser Leu Glu  
                           65                          70                          75                          80  
 Lys Asn Pro Tyr Gln Ala Val His Gln Trp Gly Thr Gln Gln Arg Leu  
                           85                          90                          95  
 Ile Gln His Pro Glu Ser Gly Ser Glu Gly Gln Ser Leu Leu Gly Pro

```

      100      105      110
Leu Arg Ala Phe Ser Ala Gly Leu Ser Leu Val Gly Leu Leu Thr Leu
      115      120      125
Gly Ala Val Leu Ser Ala Ala Thr Val Arg Glu Ala Gln Gly Leu
      130      135      140
Met Ala Gly Gly Phe Leu Cys Phe Ser Leu Ala Phe Cys Ala Gln Val
      145      150      155      160
Gln Val Val Phe Trp Arg Leu His Ser Pro Thr Gln Val Glu Asp Ala
      165      170      175
Met Leu Asp Thr Tyr Asp Leu Val Tyr Glu Gln Ala Met Lys Gly Thr
      180      185      190
Ser His Val Arg Arg Gln Glu Leu Ala Ala Ile Gln
      195      200      204

```

<210> 775  
 <211> 121  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 775
Gln Pro Gly Tyr Ser Glu Tyr Asp Lys Asn Arg Gly Gln Gly Met Leu
  1      5      10      15
Leu Asn Met Met Cys Gly Arg Gln Leu Ser Ala Ile Ser Leu Cys Leu
      20      25      30
Ala Val Thr Phe Ala Pro Leu Phe Asn Ala Gln Ala Asp Glu Pro Glu
      35      40      45
Val Ile Pro Gly Asp Ser Pro Val Ala Val Ser Glu Gln Gly Glu Ala
      50      55      60
Leu Pro Gln Ala Gln Ala Thr Ala Ile Met Ala Gly Ile Gln Pro Leu
      65      70      75      80
Pro Glu Gly Ala Ala Glu Lys Ala Arg Thr Gln Ile Glu Ser Gln Leu
      85      90      95
Pro Ala Gly Tyr Lys Pro Val Tyr Leu Asn Gln Leu Gln Leu Leu Tyr
      100      105      110
Ala Ala Arg Gly Ile Ser Cys Ser Val
      115      120 121

```

<210> 776  
 <211> 142  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 776
Arg Thr Arg Ala Ala Asp Val Tyr Val Phe Ser Leu Thr Gly Lys Ser
  1      5      10      15
Arg Asn Val Ser Ser Thr Val Arg Arg Ser Ala Val Gly Gly Met
      20      25      30
Ser Ala Leu Ala Leu Phe Asp Leu Leu Lys Pro Asn Tyr Ala Leu Ala
      35      40      45
Thr Gln Val Glu Phe Thr Asp Pro Glu Ile Val Ala Glu Tyr Ile Thr
      50      55      60
Tyr Pro Ser Pro Asn Gly His Gly Glu Val Arg Gly Tyr Leu Val Lys
      65      70      75      80
Pro Ala Lys Met Ser Gly Lys Thr Pro Ala Val Val Val Val His Glu

```

```

      85      90      95
Asn Arg Gly Leu Asn Pro Tyr Ile Glu Asp Val Ala Arg Arg Val Ala
      100      105      110
Lys Ala Gly Tyr Ile Ala Leu Ala Pro Asp Gly Leu Ser Ser Val Gly
      115      120      125
Gly Tyr Pro Gly Asn Asp Ile Lys Val Val Ser Ala Ala Ala
      130      135      140      142

```

<210> 777  
 <211> 150  
 <212>Amino acid  
 <213> Homo sapiens

```

    <400> 777
Val Lys Gln Arg His Gly Asn Ser Leu Leu Thr Thr Glu Thr Lys Cys
  1      5      10      15
Ile Ser Cys Arg Leu Gly Val Pro Leu Ser Pro Gln Arg Arg Phe Gln
      20      25      30
Ala Ile Arg Ile Glu Glu Val Lys Leu Arg Trp Phe Ala Phe Leu Ile
      35      40      45
Val Leu Leu Ala Gly Cys Ser Lys His Asp Tyr Thr Asn Pro Pro
      50      55      60
Trp Asn Ala Lys Val Pro Val Gln Arg Ala Met Gln Trp Met Pro Ile
      65      70      75      80
Ser Gln Lys Ala Gly Ala Ala Trp Gly Val Asp Pro Gln Leu Ile Thr
      85      90      95
Ala Ile Ile Ala Ile Glu Ser Gly Gly Asn Pro Asn Ala Val Ser Lys
      100      105      110
Ser Asn Ala Ile Gly Leu Met Gln Leu Lys Ala Ser Thr Ser Gly Arg
      115      120      125
Asp Val Tyr Arg Arg Met Gly Trp Ser Gly Glu Pro Thr Thr Ser Glu
      130      135      140
Leu Lys Asn Ser Ser Arg
      145      150

```

<210> 778  
 <211> 296  
 <212>Amino acid  
 <213> Homo sapiens

```

    <400> 778
His Ala Ala Gly Ile Arg His Glu Ala Lys Pro Lys Arg Ser Phe Tyr
  1      5      10      15
Ala Ala Arg Asp Leu Tyr Lys Tyr Arg His Gln Tyr Pro Asn Phe Lys
      20      25      30
Asp Ile Arg Tyr Gln Asn Asp Leu Ser Asn Leu Arg Phe Tyr Lys Asn
      35      40      45
Lys Ile Pro Phe Lys Pro Asp Gly Val Tyr Ile Glu Glu Val Leu Ser
      50      55      60
Lys Trp Lys Gly Asp Tyr Glu Lys Leu Glu His Asn His Thr Tyr Ile
      65      70      75      80
Gln Trp Leu Phe Pro Leu Arg Glu Gln Gly Leu Asn Phe Tyr Ala Lys
      85      90      95
Glu Leu Thr Thr Tyr Glu Ile Glu Glu Phe Lys Lys Thr Lys Glu Ala

```

```

      100      105      110
Ile Arg Arg Phe Leu Leu Ala Tyr Lys Met Met Leu Glu Phe Phe Gly
      115      120      125
Ile Lys Leu Thr Asp Lys Thr Gly Asn Val Ala Arg Ala Val Asn Trp
      130      135      140
Gln Glu Arg Phe Gln His Leu Asn Glu Ser Gln His Asn Tyr Leu Arg
      145      150      155      160
Ile Thr Arg Ile Leu Lys Ser Leu Gly Glu Leu Gly Tyr Glu Ser Phe
      165      170      175
Lys Ser Pro Leu Val Lys Phe Ile Leu His Glu Ala Leu Val Glu Asn
      180      185      190
Thr Ile Pro Asn Ile Lys Gln Ser Ala Leu Glu Tyr Phe Val Tyr Thr
      195      200      205
Ile Arg Asp Arg Arg Glu Arg Arg Lys Leu Leu Arg Phe Ala Gln Lys
      210      215      220
His Tyr Thr Pro Ser Glu Asn Phe Ile Trp Gly Pro Pro Arg Lys Glu
      225      230      235      240
Gln Ser Glu Gly Ser Lys Ala Gln Lys Met Ser Ser Pro Leu Ala Ser
      245      250      255
Ser His Asn Ser Gln Thr Ser Met His Lys Lys Ala Lys Asp Ser Lys
      260      265      270
Asn Ser Ser Ser Ala Val His Leu Asn Ser Lys Thr Ala Glu Asp Lys
      275      280      285
Lys Val Ala Pro Lys Glu Pro Val
      290      295      296

```

<210> 779  
 <211> 90  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 779
Glu Leu Gln Val Phe Gln Pro Ile Gly Gly Met Ser Asp Ser Gly Ser
  1      5      10      15
Gln Leu Gly Ser Met Gly Ser Leu Thr Met Lys Ser Gln Leu Gln Ile
      20      25      30
Thr Val Ile Ser Ala Lys Leu Lys Glu Asn Lys Lys Asn Trp Phe Gly
      35      40      45
Pro Ser Pro Tyr Val Glu Val Thr Val Asp Gly Gln Ser Lys Lys Thr
      50      55      60
Glu Lys Cys Asn Asn Thr Asn Ser Pro Lys Trp Lys Gln Pro Leu Thr
      65      70      75      80
Val Ile Val Thr Pro Val Ser Lys Leu His
      85      90

```

<210> 780  
 <211> 88  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 780
Ile Glu Thr Leu Ser Phe Val Ile Arg Asn Trp Asn Thr His Ala Met
  1      5      10      15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp

```

```

          20          25          30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
          35          40          45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
          50          55          60
Thr Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
          65          70          75          80
Ser Val Cys Glu Glu Ala Ser Cys
          85          88

```

<210> 781  
 <211> 35  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 781
Pro Arg Met Val Leu Gly Lys Pro Gln Thr Asp Pro Thr Leu Glu Trp
          1          5          10          15
Phe Leu Ser His Cys His Ile His Lys Tyr Pro Ser Lys Ser Thr Leu
          20          25          30
Ile Pro Gln
          35

```

<210> 782  
 <211> 145  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 782
Gly Leu Arg Ile Ser Val Gln Glu Arg Ile Lys Ala Cys Phe Thr Glu
          1          5          10          15
Ser Ile Gln Thr Gln Ile Ala Ala Glu Ala Leu Pro Asp Ala Ile
          20          25          30
Ser Arg Ala Ala Met Thr Leu Val Gln Ser Leu Leu Asn Gly Asn Lys
          35          40          45
Ile Leu Cys Cys Gly Asn Gly Thr Ser Ala Ala Asn Ala Gln His Phe
          50          55          60
Ala Ala Ser Met Ile Asn Arg Phe Glu Thr Glu Arg Pro Ser Leu Pro
          65          70          75          80
Ala Ile Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn
          85          90          95
Asp Arg Leu His Asp Glu Val Tyr Ala Lys Gln Val Arg Ala Leu Gly
          100          105          110
His Ala Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg
          115          120          125
Asp Ile Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Thr Thr Ile
          130          135          140
Val
          145

```

<210> 783  
 <211> 102  
 <212>Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 783

```

Lys Gln Thr Gln His Ala Pro Gly Met Met Lys Lys Tyr Leu Ala Leu
 1           5           10           15
Ala Leu Ile Ala Pro Leu Leu Ile Ser Cys Ser Thr Thr Lys Lys Gly
           20           25           30
Asp Thr Tyr Asn Glu Ala Trp Val Lys Asp Thr Asn Gly Phe Asp Ile
           35           40           45
Leu Met Gly Gln Phe Ala His Asn Ile Glu Asn Ile Trp Gly Phe Lys
           50           55           60
Glu Val Val Ile Ala Gly Pro Lys Asp Tyr Val Lys Tyr Thr Asp Gln
           65           70           75           80
Tyr Gln Thr Arg Ser His Ile Asn Phe Asp Asp Gly Thr Ile Thr Ile
           85           90           95
Glu Pro Ile Pro Gly Thr
           100           102

```

&lt;210&gt; 784

&lt;211&gt; 78

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

```

Thr Asp Arg Thr Ala Leu Asn Pro Gly Gln Glu Ser Ala Met Asn Arg
 1           5           10           15
Leu Phe Ser Gly Arg Ser Asp Met Pro Phe Ala Leu Leu Leu Ala
           20           25           30
Pro Ser Leu Leu Leu Leu Gly Gly Leu Val Ala Trp Pro Met Val Ser
           35           40           45
Asn Ile Glu Ile Ser Phe Leu Arg Leu Pro Leu Asn Pro Asn Ile Glu
           50           55           60
Ser Thr Phe Val Gly Val Ser Asn Tyr Val Arg Ile Leu Ser
           65           70           75           78

```

&lt;210&gt; 785

&lt;211&gt; 148

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

```

Lys Glu Leu Val Asp Glu Lys Ser Glu Arg Gly Arg Ala Met Asp Pro
 1           5           10           15
Val Ser Gln Leu Ala Ser Ala Gly Thr Phe Arg Val Leu Lys Glu Pro
           20           25           30
Leu Ala Phe Leu Arg Ala Leu Glu Leu Leu Phe Ala Ile Phe Ala Phe
           35           40           45
Ala Thr Cys Gly Gly Tyr Ser Gly Gly Leu Arg Leu Ser Val Asp Cys
           50           55           60
Val Asn Lys Thr Glu Ser Asn Leu Ser Ile Asp Ile Ala Phe Ala Tyr

```

```

65          70          75          80
Pro Phe Arg Leu His Gln Val Thr Phe Glu Val Pro Thr Cys Glu Gly
      85          90          95
Lys Glu Arg Gln Lys Leu Ala Leu Ile Gly Asp Ser Ser Ser Ser Ala
      100          105          110
Glu Phe Phe Val Thr Val Ala Val Phe Ala Phe Leu Tyr Ser Leu Ala
      115          120          125
Ala Thr Gly Arg Tyr Ile Phe Phe His Asn Lys Asn Arg Glu Asn Asn
      130          135          140
Arg Gly Pro Leu
145          148

```

```

<210> 786
<211> 246
<212>Amino acid
<213> Homo sapiens

```

```

<400> 786
Leu Gly Thr Val Ser Tyr Gly Ala Asp Thr Met Asp Glu Ile Gln Ser
 1          5          10          15
His Val Arg Asp Ser Tyr Ser Gln Met Gln Ser Gln Ala Gly Gly Asn
      20          25          30
Asn Thr Gly Ser Thr Pro Leu Arg Lys Ala Gln Ser Ser Ala Pro Lys
      35          40          45
Val Arg Lys Ser Val Ser Ser Arg Ile His Glu Ala Val Lys Ala Ile
      50          55          60
Val Leu Cys His Asn Val Thr Pro Val Tyr Glu Ser Arg Ala Gly Val
 65          70          75          80
Thr Glu Glu Thr Glu Phe Ala Glu Ala Asp Gln Asp Phe Ser Asp Glu
      85          90          95
Asn Arg Thr Tyr Gln Ala Ser Ser Pro Asp Glu Val Ala Leu Val Gln
      100          105          110
Trp Thr Glu Ser Val Gly Leu Thr Leu Val Ser Arg Asp Leu Thr Ser
      115          120          125
Met Gln Leu Lys Thr Pro Ser Gly Gln Val Leu Ser Phe Cys Ile Leu
      130          135          140
Gln Leu Phe Pro Phe Thr Ser Glu Ser Lys Arg Met Gly Val Ile Val
145          150          155          160
Arg Asp Glu Ser Thr Ala Glu Ile Thr Phe Tyr Met Lys Gly Ala Asp
      165          170          175
Val Ala Met Ser Pro Ile Val Gln Tyr Asn Asp Trp Leu Glu Glu Glu
      180          185          190
Cys Gly Asn Met Ala Arg Glu Gly Leu Arg Thr Leu Val Val Ala Lys
      195          200          205
Lys Ala Leu Thr Glu Glu Gln Tyr Gln Asp Phe Glu Val Ser Arg Leu
      210          215          220
Pro Gly Ile Pro Ser Ser Tyr Asp Gly Ala Phe Leu Thr Leu Lys Leu
225          230          235          240
Val Leu Pro Val Phe Val
      245 246

```

```

<210> 787
<211> 176
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 787

Glu Gly Pro His Arg Arg Leu Phe Gln Met Val Lys Ala Leu Gln Glu  
 1 5 10 15  
 Ala Pro Glu Asp Pro Asn Gln Ile Leu Ile Gly Tyr Ser Arg Gly Leu  
 20 25 30  
 Val Val Ile Trp Asp Leu Gln Gly Ser Arg Val Leu Tyr His Phe Leu  
 35 40 45  
 Ser Ser Gln Gln Leu Glu Asn Ile Trp Trp Gln Arg Asp Gly Arg Leu  
 50 55 60  
 Leu Val Ser Cys His Ser Asp Gly Ser Tyr Cys Gln Trp Pro Val Ser  
 65 70 75 80  
 Ser Glu Ala Gln Gln Pro Glu Pro Leu Arg Ser Leu Val Pro Tyr Gly  
 85 90 95  
 Pro Phe Pro Cys Lys Ala Ile Thr Arg Ile Leu Trp Leu Thr Thr Arg  
 100 105 110  
 Gln Gly Leu Pro Phe Thr Ile Phe Gln Gly Gly Met Pro Arg Ala Ser  
 115 120 125  
 Tyr Gly Asp Arg His Cys Ile Ser Val Ile His Asp Gly Gln Gln Thr  
 130 135 140  
 Ala Phe Asp Phe Thr Ser Arg Val Ile Gly Phe Thr Val Leu Thr Glu  
 145 150 155 160  
 Ala Asp Pro Ala Ala Ser Arg Arg Ala Ser Gly Val Gly Ala Gln Gly  
 165 170 175 176

&lt;210&gt; 788

&lt;211&gt; 180

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 788

Lys Gln Gly Leu Glu Val Arg Asp Leu His Phe Lys Glu Ile Thr Ser  
 1 5 10 15  
 Gly Arg Ala Leu Leu Arg Val Ala Cys Lys Arg Pro Ser Met Val Pro  
 20 25 30  
 Gly Gly Gln Leu Gln Arg Ala Gly Ala Gln Ala Arg Ile Thr  
 35 40 45  
 Gly Leu Ser Pro Ala Leu Trp Gly Ala Arg Val His Gly Trp Ile Pro  
 50 55 60  
 Glu Leu Pro Ala Gly Leu Pro Pro Gly Ala Cys Leu Trp Pro Leu Ile  
 65 70 75 80  
 Pro Ala Cys Pro Ser Arg His Trp Gly Trp Val Ser Ala Pro Val Lys  
 85 90 95  
 Gly Trp Ala Gln Ala Ile Leu Gly Leu Ala Leu Cys Leu Arg Gly Glu  
 100 105 110  
 His Arg Gly Leu Gly Ala Gly Val Ser Lys Val Arg Ser Leu Lys Met  
 115 120 125  
 Asp Arg Lys Val Trp Thr Glu Thr Leu Ile Glu Val Gly Met Pro Leu  
 130 135 140  
 Leu Ala Thr Asp Thr Trp Gly Leu Pro His Ser Thr Ala Val Trp Val  
 145 150 155 160  
 Ser Gln Pro Pro Pro Tyr Leu Ser Asp His Ser Thr Leu Glu Leu Glu  
 165 170 175  
 Arg Asp Pro Leu  
 180



<210> 789  
 <211> 145  
 <212>Amino acid  
 <213> Homo sapiens

<400> 789  
 Leu Ser Cys Asn Ser Glu Gln Ala Leu Leu Ser Leu Val Pro Val Gln  
 1 5 10 15  
 Arg Glu Leu Leu Arg Arg Arg Tyr Gln Ser Ser Pro Ala Lys Pro Asp  
 20 25 30  
 Ser Ser Phe Tyr Lys Gly Leu Gly Thr Cys Pro Ser Gln Leu Arg Leu  
 35 40 45  
 Ser Glu Pro Pro Pro Thr Pro Arg His Leu Ser Val Ala Ser Val Ser  
 50 55 60  
 His His Met Phe Pro Ser His Arg Ser Leu Cys Pro His Leu Pro Asp  
 65 70 75 80  
 Phe Phe Ala Ala Pro Phe Pro Ser Asp Asn Leu Pro Tyr Thr Leu Gln  
 85 90 95  
 Ser Pro Phe Pro Ser Pro Pro Pro Ala Thr Pro Ser Asp His Ala Leu  
 100 105 110  
 Ile Leu His His Asp Leu Asn Gly Gly Pro Asp Asp Pro Leu Gln Gln  
 115 120 125  
 Thr Gly Gln Leu Phe Gly Gly Leu Val Arg Asp Ile Arg Arg Arg Tyr  
 130 135 140  
 Pro  
 145

<210> 790  
 <211> 65  
 <212>Amino acid  
 <213> Homo sapiens

<400> 790  
 Ser Pro Ser Ser Lys Leu Val Gly Met Trp Trp Ala Gly Arg Ala Gly  
 1 5 10 15  
 Ser Ser Arg Thr Thr Ser Val Ser Leu Leu Cys Leu Pro Ser Ala Pro  
 20 25 30  
 Phe Gly Ala Ser Asn Leu Leu Val Asn Pro Leu Glu Pro Gln Asn Ala  
 35 40 45  
 Asp Lys Ile Lys Ile Lys Ile Ala Asp Leu Gly Asn Ala Cys Trp Val  
 50 55 60  
 Val  
 65

<210> 791  
 <211> 144  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 791

```

Arg Val Asp Pro Arg Val Arg Ala Pro Arg Cys Gly Asp Lys Ile Lys
 1           5           10           15
Asn His Met Tyr Lys Cys Asp Cys Gly Ser Leu Lys Asp Cys Ala Ser
           20           25           30
Asp Arg Cys Cys Glu Thr Ser Cys Thr Leu Ser Leu Gly Ser Val Cys
           35           40           45
Asn Thr Gly Leu Cys Cys His Lys Cys Lys Tyr Ala Ala Pro Gly Val
           50           55           60
Val Cys Arg Asp Leu Gly Gly Ile Cys Asp Leu Pro Glu Tyr Cys Asp
           65           70           75           80
Gly Lys Lys Glu Glu Cys Pro Asn Asp Ile Tyr Ile Gln Asp Gly Thr
           85           90           95
Pro Cys Ser Ala Val Ser Val Cys Ile Arg Gly Asn Cys Ser Asp Arg
           100          105          110
Asp Met Gln Cys Gln Ala Leu Phe Gly Tyr Gln Val Lys Asp Gly Ser
           115          120          125
Pro Ala Cys Tyr Arg Lys Leu Asn Arg Ile Gly Asn Arg Phe Gly Thr
           130          135          140          144

```

&lt;210&gt; 792

&lt;211&gt; 242

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 792

```

Pro Gly Arg Pro Thr Arg Pro Asp Ala Ser Leu Ala Gln Asp Pro Arg
 1           5           10           15
Thr Thr Met Phe Arg Ile Pro Glu Phe Lys Trp Ser Pro Met His Gln
           20           25           30
Arg Leu Leu Thr Asp Leu Leu Phe Ala Leu Glu Thr Asp Val His Val
           35           40           45
Trp Arg Ser His Ser Thr Lys Ser Val Met Asp Phe Val Asn Ser Asn
           50           55           60
Glu Asn Ile Ile Phe Val His Asn Thr Ile His Leu Ile Ser Gln Met
           65           70           75           80
Val Asp Asn Ile Ile Ile Ala Cys Gly Gly Ile Leu Pro Leu Leu Ser
           85           90           95
Ala Ala Thr Ser Pro Thr Gly Ser Lys Thr Glu Leu Glu Asn Ile Glu
           100          105          110
Val Thr Gln Gly Met Ser Ala Glu Thr Ala Val Thr Phe Leu Ser Arg
           115          120          125
Leu Met Ala Met Val Asp Val Leu Val Phe Ala Ser Ser Leu Asn Phe
           130          135          140
Ser Glu Ile Glu Ala Glu Lys Asn Met Ser Ser Gly Gly Leu Met Arg
145           150          155          160
Gln Cys Leu Lys Leu Val Cys Cys Val Ala Val Arg Asn Cys Leu Glu
           165          170          175
Cys Arg Gln Arg Gln Arg Asp Arg Gly Asn Lys Ser Ser His Gly Ser
           180          185          190
Ser Lys Pro Gln Glu Val Pro Gln Ser Val Thr Ala Thr Ala Ala Ser
           195          200          205
Lys Thr Pro Leu Glu Asn Val Pro Gly Asn Leu Ser Pro Ile Lys Asp
           210          215          220
Pro Asp Arg Leu Leu Gln Asp Val Asp Ile Asn Arg Leu Arg Ala Val
225           230          235          240
Val Phe

```

242

<210> 793  
 <211> 412  
 <212> Amino acid  
 <213> Homo sapiens

<400> 793  
 Asn Ser Ser Gly Val Lys Leu Leu Gln Ala Leu Gly Leu Ser Pro Gly  
 1 5 10 15  
 Asn Gly Lys Asp His Ser Ile Leu His Ser Arg Asn Asp Leu Glu Glu  
 20 25 30  
 Ala Phe Ile His Phe Met Gly Lys Gly Ala Ala Ala Glu Arg Phe Phe  
 35 40 45  
 Ser Asp Lys Glu Thr Phe His Asp Ile Ala Gln Val Ala Ser Glu Phe  
 50 55 60  
 Pro Gly Ala Gln His Tyr Val Gly Gly Asn Ala Ala Leu Ile Gly Gln  
 65 70 75 80  
 Lys Phe Ala Ala Asn Ser Asp Leu Lys Val Leu Leu Cys Gly Pro Val  
 85 90 95  
 Gly Pro Lys Leu His Glu Leu Leu Asp Asn Val Phe Val Pro Pro  
 100 105 110  
 Glu Ser Leu Gln Glu Val Asp Glu Phe His Leu Ile Leu Glu Tyr Gln  
 115 120 125  
 Ala Gly Glu Glu Trp Gly Gln Leu Lys Ala Pro His Ala Asn Arg Phe  
 130 135 140  
 Ile Phe Ser His Asp Leu Ser Asn Gly Ala Met Asn Met Leu Glu Val  
 145 150 155 160  
 Phe Val Ser Ser Leu Glu Glu Phe Gln Pro Asp Leu Gly Gly Leu Ser  
 165 170 175  
 Gly Leu His Met Met Glu Gly Gln Ser Lys Glu Leu Gln Arg Lys Arg  
 180 185 190  
 Leu Leu Glu Val Val Thr Ser Ile Ser Asp Ile Pro Thr Gly Ile Pro  
 195 200 205  
 Val His Leu Glu Leu Gly Ser Met Thr Asn Arg Glu Leu Met Ser Ser  
 210 215 220  
 Ile Val Leu Gln Gln Val Phe Pro Ala Val Thr Ser Leu Gly Leu Asn  
 225 230 235 240  
 Glu Gln Glu Leu Leu Phe Leu Thr Gln Ser Ala Ser Gly Pro His Ser  
 245 250 255  
 Ser Leu Ser Ser Trp Asn Gly Val Pro Asp Val Gly Met Val Ser Asp  
 260 265 270  
 Ile Leu Phe Trp Ile Leu Lys Glu His Gly Arg Ser Lys Ser Arg Ala  
 275 280 285  
 Ser Asp Leu Thr Arg Ile His Phe His Thr Leu Val Tyr His Ile Leu  
 290 295 300  
 Ala Thr Val Asp Gly His Trp Ala Asn Gln Leu Ala Ala Val Ala Ala  
 305 310 315 320  
 Gly Ala Arg Val Ala Gly Thr Gln Ala Cys Ala Thr Glu Thr Ile Asp  
 325 330 335  
 Thr Ser Arg Val Ser Leu Arg Ala Pro Gln Glu Phe Met Thr Ser His  
 340 345 350  
 Ser Glu Ala Gly Ser Arg Ile Val Leu Asn Pro Asn Lys Pro Val Val  
 355 360 365  
 Glu Trp His Arg Glu Gly Ile Ser Phe His Phe Thr Pro Val Leu Val  
 370 375 380  
 Cys Lys Asp Pro Ile Arg Thr Val Gly Leu Gly Asp Ala Ile Ser Ala  
 385 390 395 400  
 Glu Gly Leu Phe Tyr Ser Glu Val His Pro His Tyr

405

410

412

<210> 794  
 <211> 83  
 <212>Amino acid  
 <213> Homo sapiens

<400> 794  
 Asp Asp Ser Ser Gly Trp Gly Leu Glu Gln Leu Val Val Arg Trp Ser  
 1 5 10 15  
 Leu Ala Leu Trp Pro Arg Leu Glu Cys Ser Gly Met Ile Ser Ala His  
 20 25 30  
 Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala Pro  
 35 40 45  
 Arg Val Ala Gly Ile Thr Asp Val Cys His His Ala Trp Leu Val Phe  
 50 55 60  
 Val Phe Leu Val Val Met Gly Phe Pro His Val Gly His Val Gly Leu  
 65 70 75 80  
 Glu Leu Leu  
 83

<210> 795  
 <211> 391  
 <212>Amino acid  
 <213> Homo sapiens

<400> 795  
 Leu Gly Glu Val Leu Lys Cys Gln Gln Gly Val Ser Ser Leu Ala Phe  
 1 5 10 15  
 Ala Leu Ala Phe Leu Gln Arg Met Asp Met Lys Pro Leu Val Val Leu  
 20 25 30  
 Gly Leu Pro Ala Pro Thr Ala Pro Ser Gly Cys Leu Ser Phe Trp Glu  
 35 40 45  
 Ala Lys Ala Gln Leu Ala Lys Ser Cys Lys Val Leu Val Asp Ala Leu  
 50 55 60  
 Arg His Asn Ala Ala Ala Val Pro Phe Phe Gly Gly Gly Ser Val  
 65 70 75 80  
 Leu Arg Ala Ala Glu Pro Ala Pro His Ala Ser Tyr Gly Gly Ile Val  
 85 90 95  
 Ser Val Glu Thr Asp Leu Leu Gln Trp Cys Leu Glu Ser Gly Ser Ile  
 100 105 110  
 Pro Ile Leu Cys Pro Ile Gly Glu Thr Ala Ala Arg Arg Ser Val Leu  
 115 120 125  
 Leu Asp Ser Leu Glu Val Thr Ala Ser Leu Ala Lys Ala Leu Arg Pro  
 130 135 140  
 Thr Lys Ile Ile Phe Leu Asn Asn Thr Gly Gly Leu Arg Asp Ser Ser  
 145 150 155 160  
 His Lys Val Leu Ser Asn Val Asn Leu Pro Ala Asp Leu Asp Leu Val  
 165 170 175  
 Cys Asn Ala Glu Trp Val Ser Thr Lys Glu Arg Gln Gln Met Arg Leu  
 180 185 190  
 Ile Val Asp Val Leu Ser Arg Leu Pro His His Ser Ser Ala Val Ile  
 195 200 205  
 Thr Ala Ala Ser Thr Leu Leu Thr Glu Leu Phe Ser Asn Lys Gly Ser

```

      210              215              220
Gly Thr Leu Phe Lys Asn Ala Glu Arg Met Leu Arg Val Arg Ser Leu
225              230              235              240
Asp Lys Leu Asp Gln Gly Arg Leu Val Asp Leu Val Asn Ala Ser Phe
      245              250              255
Gly Lys Lys Leu Arg Asp Asp Tyr Leu Ala Ser Leu Arg Pro Arg Leu
      260              265              270
His Ser Ile Tyr Val Ser Glu Gly Tyr Asn Ala Ala Ala Ile Leu Thr
      275              280              285
Met Glu Pro Val Leu Gly Gly Thr Pro Tyr Leu Asp Lys Phe Val Val
      290              295              300
Ser Ser Ser Arg Gln Gly Gln Gly Ser Gly Gln Met Leu Trp Glu Cys
305              310              315              320
Leu Arg Arg Asp Leu Gln Thr Leu Phe Trp Arg Ser Arg Val Thr Asn
      325              330              335
Pro Ile Asn Pro Trp Tyr Phe Lys His Ser Asp Gly Ser Phe Ser Asn
      340              345              350
Lys Gln Trp Ile Phe Phe Trp Phe Gly Leu Ala Asp Ile Arg Asp Ser
      355              360              365
Tyr Glu Leu Val Asn His Ala Lys Gly Leu Pro Asp Ser Phe His Lys
      370              375              380
Pro Ala Ser Asp Pro Gly Ser
385              390 391

```

&lt;210&gt; 796

&lt;211&gt; 127

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(127)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 796

```

Tyr His Ala Pro Ala Leu Gln Pro Gly Gln Gln Ser Lys Thr Leu Ser
  1              5              10              15
Gln Glu Lys Lys Asn Phe Phe Arg Pro Gly Ala Val Ala His Thr Cys
      20              25              30
Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Thr Arg Ser Gly
      35              40              45
Asp Arg Asp His Pro Gly Xaa His Gly Glu Thr Pro Ser Leu Leu Lys
      50              55              60
Ile Gln Lys Lys Leu Ala Gly Arg Asp Gly Gly Arg Leu Xaa Ser Gln
      65              70              75              80
Leu Leu Gly Arg Leu Arg Gln Glu Asn Gly Val Asn Pro Gly Gly Gly
      85              90              95
Gly Cys Ser Glu Pro Arg Leu Arg His Cys Thr Pro Ala Trp Xaa Gln
      100              105              110
Ser Glu Thr Ile Ser Arg Lys Lys Arg Lys Lys Glu Arg Lys Tyr
      115              120              125              127

```

&lt;210&gt; 797

&lt;211&gt; 159

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 797

```

Phe Arg Pro Ile Gly Ile Ile Arg Gln Ala Leu Cys Ser Ala Asp Gly
 1           5           10           15
His Gln Arg Arg Ile Leu Thr Leu Arg Leu Gly Leu Leu Val Ile Pro
           20           25           30
Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Pro
           35           40           45
Ser Val Gly Cys Cys Val Met Leu Leu Phe Gly Phe Gly Ala Leu Arg
           50           55           60
Lys His Thr Glu Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly Ile
           65           70           75           80
Leu Leu Ser Asn Asp Ala Glu Arg Leu Arg Cys Ala Val Arg Gly Gly
           85           90           95
Glu Trp Arg Ser Glu Glu Ala Val Phe Arg Gly Ala Val Ser Val Cys
           100          105          110
Pro Leu Ser Ala Glu Val Arg Cys Asn Ile Gly Arg Asn Leu Ala Ala
           115          120          125
Lys Gly Asn Gln Thr Gly Ala Ile Arg Tyr His Arg Glu Ala Val Ser
           130          135          140
Leu Asn Pro Lys Thr Lys Ser Ser Thr Arg Glu Phe Arg Pro Cys
145           150           155           159

```

&lt;210&gt; 798

&lt;211&gt; 236

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 798

```

Lys Ile Ala Asp Phe Gly Phe Ser Asn Leu Phe Thr Pro Gly Gln Leu
 1           5           10           15
Leu Lys Thr Trp Cys Gly Ser Pro Pro Tyr Ala Ala Pro Glu Leu Phe
           20           25           30
Glu Gly Lys Glu Tyr Asp Gly Pro Lys Val Asp Ile Trp Ser Leu Gly
           35           40           45
Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp Gly Ser
           50           55           60
Thr Leu Gln Asn Leu Arg Ala Arg Val Leu Ser Gly Lys Phe Arg Ile
           65           70           75           80
Pro Phe Phe Met Ser Thr Glu Cys Glu His Leu Ile Arg His Met Leu
           85           90           95
Val Leu Asp Pro Asn Lys Arg Leu Ser Met Glu Gln Ile Cys Lys His
           100          105          110
Lys Trp Met Lys Leu Gly Asp Ala Asp Pro Asn Phe Asp Arg Leu Ile
           115          120          125
Ala Glu Cys Gln Gln Leu Lys Glu Glu Arg Gln Val Asp Pro Leu Asn
           130          135          140
Glu Asp Val Leu Leu Ala Met Glu Asp Met Gly Leu Asp Lys Glu Gln
145           150           155           160
Thr Leu Gln Ser Leu Arg Ser Asp Ala Tyr Asp His Tyr Ser Ala Ile
           165          170          175
Tyr Ser Leu Leu Cys Asp Arg His Lys Arg His Lys Thr Leu Arg Leu
           180          185          190
Gly Ala Leu Pro Ser Met Pro Arg Ala Leu Gly Leu Ser Ser Thr Ser
           195          200          205
Gln Tyr Pro Ala Glu Gln Ala Gly Thr Ala Met Asn Ile Ser Val Pro
210           215           220

```

Gln Val Gln Leu Ile Asn Pro Glu Asn Gln Ile Val  
 225 230 235 236

<210> 799

<211> 114

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(114)

<223> X = any amino acid or stop code

<400> 799

Ala Arg Glu Phe Leu Gly His Arg Ala Ser Ile Thr Trp Ser Xaa Ala  
 1 5 10 15  
 Arg Val His His Arg Phe Pro Lys Ala Glu Val Ala Xaa Pro Ser Leu  
 20 25 30  
 Leu Arg Thr Asp Leu Thr Glu Asp Arg Thr Lys Cys Cys His Gly Asp  
 35 40 45  
 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Val Glu Asp Ile Trp  
 50 55 60  
 Glu Asn Gln Asp Ser Ile Ser Thr Ile Leu Ile Glu Cys Cys Glu Lys  
 65 70 75 80  
 Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu  
 85 90 95  
 Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys  
 100 105 110  
 Asp Val  
 114

<210> 800

<211> 328

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(328)

<223> X = any amino acid or stop code

<400> 800

Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg Gly  
 1 5 10 15  
 Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser Gly  
 20 25 30  
 Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser Ser  
 35 40 45  
 Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys Ala  
 50 55 60  
 Ala Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr Ala  
 65 70 75 80  
 Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser Ser  
 85 90 95

Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val Asp  
                   100                  105                  110  
 Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu Gln  
                   115                  120                  125  
 Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr Ala  
                   130                  135                  140  
 Arg Arg Asn Arg Arg Pro Gly Ser Xaa Lys Asp Cys Thr Pro Xaa Lys  
 145                  150                  155                  160  
 Cys Leu Arg Lys Ser Asp Glu Ala Leu Asn Arg Val Leu Gln Gln Ile  
                   165                  170                  175  
 Arg Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg  
                   180                  185                  190  
 Gly Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser  
                   195                  200                  205  
 Gly Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser  
                   210                  215                  220  
 Ser Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys  
 225                  230                  235                  240  
 Ala Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr  
                   245                  250                  255  
 Ala Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser  
                   260                  265                  270  
 Ser Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val  
                   275                  280                  285  
 Asp Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu  
                   290                  295                  300  
 Gln Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr  
 305                  310                  315                  320  
 Ala Arg Arg Asn Arg Arg Pro Gly  
                   325                  328

<210> 801  
 <211> 356  
 <212> Amino acid  
 <213> Homo sapiens

<400> 801  
 Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met Ser  
   1                  5                  10                  15  
 Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg Glu  
                   20                  25                  30  
 Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu Glu  
                   35                  40                  45  
 Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu Arg  
                   50                  55                  60  
 Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala Ser  
                   65                  70                  75                  80  
 Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu Ile  
                   85                  90                  95  
 Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser Gln  
                   100                  105                  110  
 Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu Lys  
                   115                  120                  125  
 Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala Ser  
                   130                  135                  140  
 Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln Leu  
 145                  150                  155                  160  
 Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg Glu  
                   165                  170                  175



Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu Ile  
                   180                  185                  190  
 Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu Gln  
                   195                  200                  205  
 Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu Thr  
                   210                  215                  220  
 Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln Glu  
                   225                  230                  235                  240  
 Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln Ala  
                   245                  250                  255  
 Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln Gln  
                   260                  265                  270  
 Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu Leu  
                   275                  280                  285  
 Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys Thr  
                   290                  295                  300  
 Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu Ile  
                   305                  310                  315                  320  
 Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys  
                   325                  330                  335  
 Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly  
                   340                  345                  350  
 Arg Ser Thr \*  
                   355

<210> 802  
 <211> 210  
 <212> Amino acid  
 <213> Homo sapiens

<400> 802  
 Ser Tyr Pro Val Trp Trp Asn Ser Pro Leu Thr Ala Glu Val Pro Pro  
   1                  5                  10                  15  
 Glu Leu Leu Ala Ala Gly Phe Phe His Thr Gly His Gln Asp Lys  
                   20                  25                  30  
 Val Arg Cys Phe Phe Cys Tyr Gly Gly Leu Gln Ser Trp Lys Arg Gly  
                   35                  40                  45  
 Asp Asp Pro Trp Thr Glu His Ala Lys Trp Phe Pro Ser Cys Gln Phe  
                   50                  55                  60  
 Leu Leu Arg Ser Lys Gly Arg Asp Phe Val His Ser Val Gln Glu Thr  
                   65                  70                  75                  80  
 His Ser Gln Leu Leu Gly Ser Trp Asp Pro Trp Glu Glu Pro Glu Asp  
                   85                  90                  95  
 Ala Ala Pro Val Ala Pro Ser Val Pro Ala Ser Gly Tyr Pro Glu Leu  
                   100                  105                  110  
 Pro Thr Pro Arg Arg Glu Val Gln Ser Glu Ser Ala Gln Glu Pro Gly  
                   115                  120                  125  
 Gly Val Ser Pro Ala Glu Ala Gln Arg Ala Trp Trp Val Leu Glu Pro  
                   130                  135                  140  
 Pro Gly Ala Arg Asp Val Glu Ala Gln Leu Arg Arg Leu Gln Glu Glu  
                   145                  150                  155                  160  
 Arg Thr Cys Lys Val Cys Leu Asp Arg Ala Val Ser Ile Val Phe Val  
                   165                  170                  175  
 Pro Cys Gly His Leu Val Cys Ala Glu Cys Ala Pro Gly Leu Gln Leu  
                   180                  185                  190  
 Cys Pro Ile Cys Arg Ser Pro Cys Gly Pro Leu Arg Pro Cys Leu Trp  
                   195                  200                  205  
 Val Pro  
                   210

<210> 803  
 <211> 130  
 <212>Amino acid  
 <213> Homo sapiens

<400> 803  
 Met Cys Ser Tyr Arg Glu Lys Lys Ala Glu Pro Gln Glu Leu Leu Gln  
 1 5 10 15  
 Leu Asp Gly Tyr Thr Val Asp Tyr Thr Asp Pro Gln Pro Gly Leu Glu  
 20 25 30  
 Gly Gly Arg Ala Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile  
 35 40 45  
 Phe Ala Ser Asp Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met  
 50 55 60  
 Tyr Arg Ala Thr Gly Gln Ser His Lys Pro Val Pro Pro Thr Gln Val  
 65 70 75 80  
 Gln Lys Leu Asn Ala Lys Gly Gly Asn Val Pro Gln Leu Asp Ala Pro  
 85 90 95  
 Ile Ser Gln Phe Tyr Ala Asp Arg Ala Gln Lys His Gly Met Asp Glu  
 100 105 110  
 Phe Ile Ser Ser Asn Pro Cys Asn Phe Asp His Ala Ser Leu Phe Glu  
 115 120 125  
 Met \*  
 129

<210> 804  
 <211> 458  
 <212>Amino acid  
 <213> Homo sapiens

<400> 804  
 Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp  
 1 5 10 15  
 Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys  
 20 25 30  
 Ala Arg Ala Gly Leu Leu Leu Ala Pro Gly His Gln Gly Pro Gln Arg  
 35 40 45  
 Pro Val Lys Asp Glu Pro Gln Asp Gly Glu Asn Pro Asn Pro Pro Asn  
 50 55 60  
 Trp Ser Arg Thr Val Val Arg Asp Val Arg Leu Ile Ser Ala Lys Thr  
 65 70 75 80  
 Gly Tyr Gly Val Glu Glu Leu Ile Ser Ala Leu Gln Arg Ser Trp Arg  
 85 90 95  
 Tyr Arg Gly Asp Val Tyr Leu Val Gly Ala Thr Asn Ala Gly Lys Ser  
 100 105 110  
 Thr Leu Phe Asn Thr Leu Leu Glu Ser Asp Tyr Cys Thr Ala Lys Gly  
 115 120 125  
 Ser Glu Ala Ile Asp Arg Ala Thr Ile Ser Pro Trp Pro Gly Thr Thr  
 130 135 140  
 Leu Asn Leu Leu Lys Phe Pro Ile Cys Asn Pro Thr Pro Tyr Arg Met  
 145 150 155 160  
 Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu Glu  
 165 170 175

Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys His  
 180 185 190  
 Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu Glu  
 195 200 205  
 Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala Phe  
 210 215 220  
 Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys Gln  
 225 230 235 240  
 Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr Asp  
 245 250 255  
 Thr Pro Gly Ile Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr Glu  
 260 265 270  
 Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg Thr  
 275 280 285  
 Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly Arg  
 290 295 300  
 Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val Ala  
 305 310 315 320  
 Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp Ala  
 325 330 335  
 Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met Gly  
 340 345 350  
 Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp Ile  
 355 360 365  
 Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile Lys  
 370 375 380  
 Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp Arg  
 385 390 395 400  
 Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val Arg  
 405 410 415  
 Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile Lys  
 420 425 430  
 Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr Asn  
 435 440 445  
 Val Arg Lys Lys Lys Gly Lys Ile Asn Val  
 450 455 458

&lt;210&gt; 805

&lt;211&gt; 290

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 805

Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Glu Cys Leu  
 1 5 10 15  
 Arg Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr  
 20 25 30  
 Met Leu Val Ser Arg Asn Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys  
 35 40 45  
 Lys Ser Asp Gly Gly Val Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu  
 50 55 60  
 Val Ser Pro Ala Gln Glu Pro Ala Pro Leu Gln Thr Ala Met Glu Pro  
 65 70 75 80  
 Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr  
 85 90 95  
 Glu Ser Cys Asn Thr Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro  
 100 105 110  
 Leu Arg Thr Gly Asn Gly Ser Ser Val Pro Glu Gly Arg Ser Ser Arg  
 115 120 125

```

Asp Arg Thr Ala Pro Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys
  130          135          140
Ser Ser Ala Met Arg Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu
145          150          155          160
Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys
          165          170          175
Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val
          180          185          190
Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn Leu Leu Ser Lys
          195          200          205
Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro His Val His Val
210          215          220
Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr
225          230          235          240
Ile Asp Gly Gln Gly Arg Pro Ser Asn Pro Ala Lys Ser Glu Glu Thr
          245          250          255
Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val His Tyr His
          260          265          270
Cys Ser Gly Ala Pro Cys Pro His Arg Cys Ser Glu Leu Ser His Arg
          275          280          285
Gly Phe
290

```

```

<210> 806
<211> 570
<212> Amino acid
<213> Homo sapiens

```

```

<400> 806
Leu Pro Lys Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val
  1          5          10          15
Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His
          20          25          30
Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg
          35          40          45
Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile
          50          55          60
Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr
          65          70          75          80
Asp Ile Asn Gly Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr
          85          90          95
Val Ala His Ser Gly Ile Gly Asp Arg Arg Val Ser Leu Ile Val Phe
          100          105          110
Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile
          115          120          125
Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr
          130          135          140
Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser
145          150          155          160
Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala
          165          170          175
Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu
          180          185          190
Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr
          195          200          205
Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala
210          215          220
Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr
225          230          235          240

```

```
<210> 807
<211> 279
<212> Amino acid
<213> Homo sapiens
```

445

Gly Gln Ser Tyr Lys Pro Val Pro Ala Ile Gln Thr Gln Lys Leu Asn  
                             85                            90                            95  
 Pro Lys Gly Gly Thr Leu His Ala Asp Ala Gln Leu Tyr Ala Asp Arg  
                             100                            105                            110  
 Phe Gln Lys His Gly Met Asp Glu Phe Ile Ser Ala Asn Pro Cys Lys  
                             115                            120                            125  
 Leu Asp His Ala Phe Leu Phe Arg Ile Leu Gln Arg Gln Thr Leu Asp  
                             130                            135                            140  
 His Arg Leu Asn Asp Ser Tyr Ser Cys Leu Gly Trp Phe Ser Pro Gly  
 145                            150                            155                            160  
 Gln Val Phe Val Leu Asp Glu Tyr Cys Ala Arg Tyr Gly Val Arg Gly  
                             165                            170                            175  
 Cys His Arg His Leu Cys Tyr Leu Ala Glu Leu Met Glu His Ser Glu  
                             180                            185                            190  
 Asn Gly Ala Val Ile Asp Pro Thr Leu Leu His Tyr Ser Phe Ala Phe  
                             195                            200                            205  
 Cys Ala Ser His Val His Gly Asn Arg Pro Asp Gly Ile Gly Thr Val  
                             210                            215                            220  
 Ser Val Glu Glu Lys Glu Arg Phe Glu Glu Ile Lys Glu Arg Leu Ser  
 225                            230                            235                            240  
 Ser Leu Leu Glu Asn Gln Ile Ser His Phe Arg Tyr Cys Phe Pro Phe  
                             245                            250                            255  
 Gly Arg Pro Glu Gly Ala Leu Lys Ala Thr Leu Ser Leu Leu Glu Arg  
                             260                            265                            270  
 Val Leu Met Lys Asp Ile Ala  
                             275                            279

&lt;210&gt; 808

&lt;211&gt; 251

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(251)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 808

Asp Gly Leu Leu His Glu Val Leu Asn Gly Leu Leu Asp Arg Pro Asp  
   1                            5                            10                            15  
 Trp Glu Glu Ala Val Lys Met Pro Val Gly Ile Leu Pro Cys Gly Ser  
                             20                            25                            30  
 Gly Asn Ala Leu Ala Gly Ala Val Asn Gln His Gly Gly Phe Glu Pro  
                             35                            40                            45  
 Ala Leu Gly Leu Asp Leu Leu Asn Cys Ser Leu Leu Cys Arg  
                             50                            55                            60  
 Gly Gly Gly His Pro Leu Asp Leu Leu Ser Val Thr Leu Ala Ser Gly  
 65                            70                            75                            80  
 Ser Arg Cys Phe Ser Phe Leu Ser Val Ala Trp Gly Phe Val Ser Asp  
                             85                            90                            95  
 Val Asp Ile Gln Ser Glu Arg Phe Arg Ala Leu Gly Ser Ala Arg Phe  
                             100                            105                            110  
 Thr Leu Gly Thr Val Leu Gly Leu Ala Thr Leu His Thr Tyr Arg Gly  
                             115                            120                            125  
 Arg Leu Ser Tyr Leu Pro Ala Thr Val Glu Pro Ala Ser Pro Thr Pro  
                             130                            135                            140  
 Ala His Ser Leu Pro Arg Ala Lys Ser Glu Leu Thr Leu Thr Pro Asp  
 145                            150                            155                            160  
 Pro Ala Pro Pro Met Ala His Ser Pro Leu His Arg Ser Val Ser Asp

```

          165          170          175
Leu Pro Leu Pro Leu Pro Gln Pro Ala Leu Ala Ser Pro Gly Ser Pro
          180          185          190
Glu Pro Leu Pro Ile Leu Ser Leu Asn Gly Gly Gly Pro Glu Leu Ala
          195          200          205
Gly Asp Trp Gly Gly Ala Gly Asp Ala Pro Leu Ser Pro Asp Pro Gln
          210          215          220
Leu Ser Ser Pro Pro Gly Ser Pro Lys Ala Ala Leu His Ser Pro Val
          225          230          235          240
Xaa Lys Lys Ala Pro Val Ile Pro Pro Asp Met
          245          250 251

```

<210> 809  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 809
Lys Gly Val Pro Thr Leu Leu Met Ala Ala Gly Ser Phe Tyr Asp Ile
  1          5          10          15
Leu Ala Ile Thr Gly Phe Asn Thr Cys Leu Gly Ile Ala Phe Ser Thr
          20          25          30
Gly Ser Thr Val Phe Asn Val Leu Arg Gly Val Leu Glu Val Val Ile
          35          40          45
Gly Val Ala Thr Gly Ser Val Leu Gly Phe Phe Ile Gln Tyr Phe Pro
          50          55          60
Ser Arg Asp Gln Asp Lys Leu Val Cys Lys Arg Thr Phe Leu Val Leu
          65          70          75          80
Gly Leu Ser Val Leu Ala Val Phe Ser Ser Val His Phe Gly Phe Pro
          85          90          95
Gly Ser Gly Gly Leu Cys Thr Leu Val Met Ala Phe Leu Ala Gly Met
          100          105          110
Gly Trp Thr Ser Glu Lys Ala Glu Val Glu Lys Ile Ile Ala Val Ala
          115          120          125
Trp Asp Ile Phe Gln Pro Leu Leu Phe Gly Leu Ile Gly Ala Glu Val
          130          135          140
Ser Ile Ser Ser Leu Arg Pro Glu Thr Val Gly Leu Cys Val Ala Thr
          145          150          155          160
Val Gly Ile Ala Val Leu Ile Arg Ile Phe Asp Tyr Ile Phe
          165          170          174

```

<210> 810  
 <211> 104  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 810
Leu Leu Lys Glu Val Val Val Gln Ala Ser Pro Val Cys Lys Thr Cys
  1          5          10          15
Cys Ser Gln Leu Val Arg Thr Pro Val Thr Phe Thr Glu Val Gln Asn
          20          25          30
Val Cys Arg Cys Ser Ala Gly Tyr Leu Ile Ser Val Cys Ser Tyr Thr
          35          40          45
Ser Ser Asp His Asn Gln Cys Tyr Ala Gly Thr Ala Ser Leu Ala Leu

```

```

      50              55              60
Leu Trp Ile Gly Gly Ile Leu Lys Gly Cys Leu Leu Trp Lys Gln Phe
 65              70              75              80
Arg Trp Thr Glu Arg Ser His Trp Asn Phe Gly Tyr Trp Ala Leu Trp
      85              90              95
Ser Pro Gly Asn Gly Asn Gly Cys
      100              104

```

<210> 811  
 <211> 77  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 811
Ile Cys Thr Ser Thr Tyr Leu Gln Ile Phe Pro Gly Lys Pro Ser Cys
 1              5              10              15
Phe Met Cys Lys Gly Arg Leu Met Cys Ile Tyr Phe Ile Leu Trp Tyr
      20              25              30
Leu Gly His Tyr Thr Ser Leu His Trp Asn Trp Cys Arg Tyr Ile Ser
      35              40              45
Asp Pro Asn Val Asp Ala Cys Pro Asp Pro Arg Asn Ala Glu Val Ser
 50              55              60
Met Thr His Thr Val Pro Ala Leu Met Glu Leu Ile Asp
 65              70              75              77

```

<210> 812  
 <211> 194  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 812
Leu Glu Ser Leu Pro Gly Phe Lys Glu Ile Val Ser Arg Gly Val Lys
 1              5              10              15
Val Asp Tyr Leu Thr Pro Asp Phe Pro Ser Leu Ser Tyr Pro Asn Tyr
      20              25              30
Tyr Thr Leu Met Thr Gly Arg His Cys Glu Val His Gln Met Ile Gly
      35              40              45
Asn Tyr Met Trp Asp Pro Thr Thr Asn Lys Ser Phe Asp Ile Gly Val
 50              55              60
Asn Lys Asp Ser Leu Met Pro Leu Trp Trp Asn Gly Ser Glu Pro Leu
 65              70              75              80
Trp Val Thr Leu Thr Lys Ala Lys Arg Lys Val Tyr Met Tyr Tyr Trp
      85              90              95
Pro Gly Cys Glu Val Glu Ile Leu Gly Val Arg Pro Thr Tyr Cys Leu
      100              105              110
Glu Tyr Lys Asn Val Pro Thr Asp Ile Asn Phe Ala Asn Ala Val Ser
      115              120              125
Asp Ala Leu Asp Ser Phe Lys Ser Gly Arg Ala Asp Leu Ala Ala Ile
      130              135              140
Tyr His Glu Arg Ile Asp Val Glu Gly His His Tyr Gly Pro Ala Ser
      145              150              155              160
Pro Gln Arg Lys Asp Ala Leu Lys Ala Val Asp Thr Val Leu Lys Tyr
      165              170              175
Met Thr Lys Trp Ile Gln Glu Arg Gly Leu Gln Asp Arg Leu Asn Val

```



Ile Ile 180 185 190  
194

<210> 813  
<211> 116  
<212>Amino acid  
<213> Homo sapiens  
  
<220> .  
<221> misc\_feature  
<222> (1)...(116)  
<223> X = any amino acid or stop code

<400> 813  
Ala Arg Asp Phe His Pro Lys Gln Thr Leu Asp Phe Leu Arg Ser Asp  
1 5 10 15  
Met Ala Asn Ser Lys Ile Thr Glu Glu Val Lys Arg Ser Ile Ala Gln  
20 25 30  
Gln Tyr Leu Asp Leu Thr Val Ala Leu Glu Gln Val Asp Pro Asp Ala  
35 40 45  
Glu Val Asp Ala Ala Pro Ser Thr Thr Ser Ser Cys Gly His Xaa Asp  
50 55 60  
Ser His Ala Gly Ser Xaa Arg Val Leu Ser Leu Leu Gly Asp Xaa Gly  
65 70 75 80  
Pro Ala Xaa Thr Gly Ala Asn Ser Met Ala Gly Lys Leu Leu Val  
85 90 95  
Ala Trp Leu Gly Phe Pro Asp Pro Phe Trp Gly Lys Glu Leu Ser Asp  
100 105 110  
Pro Ala Phe Lys  
115 116

<210> 814  
<211> 121  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(121)  
<223> X = any amino acid or stop code

<400> 814  
Lys Gln Ser Gly Asp Val Thr Cys Asn Cys Thr Asp Gly Arg Leu Ala  
1 5 10 15  
Pro Ser Cys Leu Thr Cys Val Gly His Cys Ile Phe Gly Gly Tyr Cys  
20 25 30  
Thr Met Asn Ser Lys Met Met Pro Glu Cys Gln Ser Pro Pro His Met  
35 40 45  
Thr Gly Pro Arg Cys Glu Glu His Val Phe Ser Gln His Gln Pro Gly  
50 55 60  
His Ile Thr Ser Ile Leu Ile Pro Met Leu Xaa Leu Leu Leu Val  
65 70 75 80  
Leu Val Ala Gly Val Ile Phe Cys His Lys Arg Arg Val Gln Gly Ala

```

      85          90          95
Lys Gly Phe Gln His Gln Arg Met Thr Asn Gly Ala Met Asn Ala Gln
      100          105          110
Ile Ala Asn Pro Thr Tyr Lys Met Tyr
      115          120 121

```

```

<210> 815
<211> 86
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(86)
<223> X = any amino acid or stop code

```

```

<400> 815
Thr Val Glu Asn Ala Gly Arg Trp Leu Xaa Glu Glu Ala Glu Ile Gln
 1          5          10          15
Ala Glu Leu Glu Arg Leu Glu Arg Val Arg Asn Leu His Ile Arg Glu
      20          25          30
Leu Lys Arg Ile Asn Asn Glu Asp Asn Ser Gln Phe Lys Asp His Pro
      35          40          45
Thr Leu Asn Glu Arg Tyr Leu Leu Leu His Leu Leu Gly Arg Gly Gly
      50          55          60
Phe Ser Glu Val Tyr Lys Val Met Tyr Gly Leu Phe Trp Phe Phe Tyr
      65          70          75          80
Thr Asn Val Ala Arg Ile
      85 86

```

```

<210> 816
<211> 130
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(130)
<223> X = any amino acid or stop code

```

```

<400> 816
Met Cys Glu Glu Phe Leu Val Met Gly Lys Gly Cys Ser Cys Val Phe
 1          5          10          15
Xaa Ile Leu Leu Ser Asn Pro Gln Met Trp Trp Leu Asn Asp Ser Asn
      20          25          30
Pro Glu Thr Asp Asn Arg Gln Glu Ser Pro Ser Gln Glu Asn Ile Asp
      35          40          45
Arg Val Ser Asp Met Ala Phe Val Pro Ser Ala Trp Thr Ala Ser Gly
      50          55          60
Gly Val Ala Trp Gly Asn Leu Gly Glu Ser Gly Ser Arg Thr Gly Gly
      65          70          75          80
Val Arg Ala Glu Thr Leu Ala Pro Arg Leu Gln Val Xaa Pro Ala His
      85          90          95
Leu Arg Gly His Pro Arg Ser Asn Arg Gly Gln Gly Arg Pro Pro Trp

```

```

          100          105          110
Lys Ala Gly Lys Leu Gly Lys Cys Gln Glu Val Leu Phe Arg Phe Ala
          115          120          125
Ala Phe
          130

```

```

<210> 817
<211> 119
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(119)
<223> X = any amino acid or stop code

```

```

<400> 817
Phe Arg Ala Met Phe Leu Ala Val Gln His Asp Cys Arg Pro Met Asp
 1          5          10          15
Lys Ser Ala Gly Ser Gly His Lys Ser Glu Glu Lys Arg Glu Lys Met
          20          25          30
Lys Arg Thr Leu Leu Lys Asp Trp Lys Thr Arg Leu Ser Tyr Phe Leu
          35          40          45
Gln Asn Ser Ser Thr Pro Gly Lys Pro Lys Thr Gly Lys Lys Ser Lys
          50          55          60
Gln Gln Ala Phe Ile Lys Xaa Val Glu Asn Pro Glu Leu Ala Asn Ile
          65          70          75          80
Asn Ser Xaa Leu Leu Asn Xaa Lys Gly Glu Leu Xaa Xaa Ala Xaa Ala
          85          90          95
Asn Ile Gln Asn Leu Ser Cys Arg Pro Ser Pro Glu Glu Ala Gln Leu
          100          105          110
Trp Ser Glu Ala Phe Asp Glu
          115          119

```

```

<210> 818
<211> 131
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> X = any amino acid or stop code

```

```

<400> 818
Gly Phe Phe Asn Phe Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn
 1          5          10          15
Ser Ser Leu Val Leu Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp
          20          25          30
Ala Glu Arg Asp Val Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp
          35          40          45
Ala Arg His Ser Ser Val His Arg Xaa Phe Thr Gln Leu His Trp Gly
          50          55          60
Pro Pro Ser His Thr Pro Ala Arg Pro Xaa Arg Gly Phe Phe Asn Phe

```

```

65              70              75              80
Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn Ser Ser Leu Val Leu
                        85              90              95
Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp Ala Glu Arg Asp Val
                        100             105             110
Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp Ala Arg His Ser Ser
                        115             120             125
Val His Arg
130 131

```

```

<210> 819
<211> 85
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(85)
<223> X = any amino acid or stop code

```

```

<400> 819
Arg Ile Asp Asp Gln Gln Glu Leu Lys Arg Val Thr Xaa Tyr Ser Gln
 1              5              10              15
Lys Glu Tyr Thr Lys Lys Lys Leu His Lys Lys Cys Asn Ile Ile Gln
              20              25              30
Ala Asp Ile Lys Pro Asp Asn Ile Leu Asp Asn Glu Ser Ile Thr Ile
              35              40              45
Leu Lys Leu Ser Asp Phe Gly Ser Ala Ser His Val Ala Asp Asn Asp
 50              55              60
Ile Thr Pro Ser Ser Ser Gln Thr Thr Ser Ala Ala Ser Ser Pro Pro
 65              70              75              80
Arg Thr Leu Arg Arg
              85

```

```

<210> 820
<211> 44
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(44)
<223> X = any amino acid or stop code

```

```

<400> 820
Ser Ser Lys Pro Trp Asp Xaa Ser Leu Ala Pro Lys His Ser Gly Xaa
 1              5              10              15
Thr Lys Asn Met Asp Cys Tyr Cys Ile Ile Pro Thr Cys Ile Gly Arg
              20              25              30
Glu Arg Cys Tyr Gly Thr Cys Ile Gly Asp Thr Val
              35              40              44

```

```

<210> 821

```

<211> 105  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(105)  
 <223> X = any amino acid or stop code

<400> 821  
 Asn Ser Ser Lys Lys Leu Val Met Glu His Gln Trp Lys Lys Tyr Leu  
 1 5 10 15  
 Arg Arg Asn Tyr Gln Arg Met Leu Asn Arg Leu Ile Thr Leu Ile Gly  
 20 25 30  
 Ser Cys Gly Val Leu Xaa Leu Ile Ser Thr Ile Pro Thr Ser Arg Leu  
 35 40 45  
 Lys Phe Leu Lys Glu Thr Gly His Gly Thr Pro Met Glu Glu Ile Pro  
 50 55 60  
 Glu Glu Glu Leu Ser Glu Asp Val Glu Gln Ile Asp His Ala Asp Arg  
 65 70 75 80  
 Glu Leu Arg Arg Gly Gln Asn Leu Arg Cys Lys Gly Ile His Arg Leu  
 85 90 95  
 Pro Thr His Ile Gln Val Gly Gln Asn  
 100 105

<210> 822  
 <211> 172  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(172)  
 <223> X = any amino acid or stop code

<400> 822  
 Lys Trp Met Leu Leu His Ser Phe Lys Ile Phe Cys Leu Ser Leu Tyr  
 1 5 10 15  
 Pro Gln Leu Xaa Cys Pro Phe Glu Phe Phe Ser His Ser Ala Thr Ile  
 20 25 30  
 Phe His Glu Leu Val Tyr Lys Gln Thr Lys Ile Ile Ser Ser Asn Gln  
 35 40 45  
 Glu Leu Ile Tyr Glu Gly Arg Arg Leu Val Leu Glu Pro Gly Arg Leu  
 50 55 60  
 Ala Gln His Phe Pro Lys Thr Thr Glu Glu Asn Pro Ile Phe Val Val  
 65 70 75 80  
 Ser Arg Glu Pro Leu Asn Thr Ile Gly Leu Ile Tyr Glu Lys Ile Ser  
 85 90 95  
 Leu Pro Lys Val His Pro Arg Tyr Asp Leu Asp Gly Asp Ala Ser Met  
 100 105 110  
 Ala Lys Ala Ile Thr Gly Val Val Cys Tyr Ala Cys Arg Ile Ala Ser  
 115 120 125  
 Thr Leu Leu Leu Tyr Gln Glu Leu Met Arg Lys Gly Ile Arg Trp Leu  
 130 135 140  
 Ile Glu Leu Ile Lys Asp Asp Tyr Asn Glu Thr Val His Lys Lys Thr

```
<210> 823
<211> 104
<212> Amino acid
<213> Homo sapiens

<220> .
<221> misc_feature
<222> (1)...(104)
<223> X = any amino acid or stop code
```

```
<210> 824
<211> 99
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(99)
<223> X = any amino acid or stop code
```

454

99

<210> 825  
 <211> 111  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(111)  
 <223> X = any amino acid or stop code

<400> 825  
 Pro Val Pro Leu Pro His Pro Ile Leu Glu Val Cys Pro Gly Gln Xaa  
 1 5 10 15  
 Glu Pro Gln Ser Ala Ile Ser Leu Thr Ala Phe Gln Val Gln Ala Gly  
 20 25 30  
 Ala Ser Arg Ala Ser Pro Gly Pro Ala Pro Ser Ser Ser Lys Pro  
 35 40 45  
 Gly Arg Lys Ala Lys Val Ala Ser Pro Cys Pro Asp Arg Pro Ala Pro  
 50 55 60  
 Pro Pro Thr Xaa Pro Arg Pro Ala Ala Ala Pro Gly Ser Glu Ser Ser  
 65 70 75 80  
 Pro Arg Pro Pro Arg Pro Arg Thr Gly Arg Arg Gln Gln Arg Ala His  
 85 90 95  
 Ala Arg Arg Ala Ala Arg Thr Ala Pro Trp Arg Pro Ser Cys  
 100 105 110 111

<210> 826  
 <211> 95  
 <212>Amino acid  
 <213> Homo sapiens

<400> 826  
 His Glu Gly Arg Arg Arg Gly Trp Ala Ser Ala Ser Gln Arg Phe Leu  
 1 5 10 15  
 Arg Asn Trp Ala Phe Leu Thr Pro Ser Lys Val Arg Arg Leu Lys Gly  
 20 25 30  
 Gln Lys Ala Phe Gly Lys Leu Pro Ser His Ser Asp Thr Ser Leu Thr  
 35 40 45  
 Ser Asp Leu Gly Phe His His Arg Phe Asn Pro Asn Ala Ser Ser Ser  
 50 55 60  
 Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly Arg  
 65 70 75 80  
 Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Val Ser Gly Leu  
 85 90 95

<210> 827  
 <211> 33  
 <212>Amino acid  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(33)  
 <223> X = any amino acid or stop code

<400> 827  
 Gly Arg Asn Ile Met His Tyr Pro Asn Gly His Ala Ile Cys Ile Ala  
     1                    5                    10                    15  
 Asn Gly His Cys Ile Ile Leu Xaa Asn Ser His Asn Ile Lys Val Trp  
                     20                    25                    30  
 Val  
 33

<210> 828  
 <211> 178  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(178)  
 <223> X = any amino acid or stop code

<400> 828  
 Ile Asn Leu Gly Asn Thr Cys Tyr Met Asn Ser Val Ile Xaa Ala Leu  
     1                    5                    10                    15  
 Phe Met Ala Thr Asp Phe Arg Arg Gln Val Leu Ser Leu Asn Leu Asn  
                     20                    25                    30  
 Gly Cys Asn Ser Leu Met Lys Lys Leu Gln His Leu Phe Ala Phe Leu  
                     35                    40                    45  
 Ala His Thr Gln Arg Glu Ala Tyr Ala Pro Arg Ile Phe Phe Glu Ala  
                     50                    55                    60  
 Ser Arg Pro Pro Trp Phe Thr Pro Arg Ser Gln Gln Asp Cys Ser Glu  
     65                    70                    75                    80  
 Tyr Leu Arg Phe Leu Leu Asp Arg Leu His Glu Glu Glu Lys Ile Leu  
                     85                    90                    95  
 Lys Val Gln Ala Ser His Lys Pro Ser Glu Ile Leu Glu Cys Ser Glu  
                     100                    105                    110  
 Thr Ser Leu Gln Glu Val Ala Ser Lys Ala Ala Val Leu Thr Glu Thr  
                     115                    120                    125  
 Pro Arg Thr Ser Asp Gly Glu Lys Thr Leu Ile Glu Lys Met Phe Gly  
     130                    135                    140  
 Gly Lys Leu Arg Thr His Ile Arg Cys Leu Asn Cys Thr Ser Thr Ser  
     145                    150                    155                    160  
 Gln Lys Val Glu Ala Phe Thr Asp Leu Ser Leu Ala Phe Trp Pro Ser  
                     165                    170                    175  
 Ser Ser  
 178

<210> 829  
 <211> 43  
 <212>Amino acid  
 <213> Homo sapiens

<220>



<221> misc\_feature  
 <222> (1)...(43)  
 <223> X = any amino acid or stop code

<400> 829  
 Ala Arg Asp Asp Pro Arg Val Arg Leu Ser Leu Ser Pro Asn Phe Phe  
 1 5 10 15  
 Xaa Leu Ala Ser Lys Leu Gly Lys Gln Trp Thr Pro Leu Ile Ile Leu  
 20 25 30  
 Ala Asn Ser Leu Ser Gly Thr Asn Met Gly Glu  
 35 40 43

<210> 830  
 <211> 259  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(259)  
 <223> X = any amino acid or stop code

<400> 830  
 Met His Arg Ile Lys Leu Asn Asp Arg Met Thr Phe Pro Glu Glu Leu  
 1 5 10 15  
 Asp Met Ser Thr Phe Ile Asp Val Glu Asp Glu Lys Ser Pro Gln Thr  
 20 25 30  
 Glu Ser Cys Thr Asp Ser Gly Ala Glu Asn Glu Gly Ser Cys His Ser  
 35 40 45  
 Asp Gln Met Ser Asn Asp Phe Ser Asn Asp Asp Gly Val Asp Glu Gly  
 50 55 60  
 Ile Cys Leu Glu Thr Asn Ser Gly Thr Glu Lys Ile Ser Lys Ser Gly  
 65 70 75 80  
 Leu Glu Lys Asn Ser Leu Ile Tyr Glu Leu Phe Ser Val Met Val His  
 85 90 95  
 Ser Gly Ser Ala Ala Gly Gly His Tyr Tyr Ala Cys Ile Lys Ser Phe  
 100 105 110  
 Ser Asp Glu Gln Trp Tyr Ser Phe Asn Asp Gln His Val Ser Arg Ile  
 115 120 125  
 Thr Gln Glu Asp Ile Lys Lys Thr His Gly Gly Ser Ser Gly Ser Arg  
 130 135 140  
 Gly Tyr Tyr Ser Ser Ala Phe Ala Ser Ser Thr Asn Ala Tyr Met Leu  
 145 150 155 160  
 Ile Tyr Arg Leu Lys Asp Pro Ala Arg Asn Ala Lys Phe Leu Glu Val  
 165 170 175  
 Asp Glu Tyr Pro Glu His Ile Lys Asn Leu Val Gln Lys Glu Arg Glu  
 180 185 190  
 Leu Glu Glu Gln Glu Lys Arg Gln Arg Glu Ile Glu Arg Asn Thr Cys  
 195 200 205  
 Lys Ile Lys Leu Phe Cys Leu His Pro Thr Lys Gln Val Met Met Glu  
 210 215 220  
 Asp Xaa Ile Glu Val His Lys Asp Lys Thr Leu Lys Glu Ala Val Glu  
 225 230 235 240  
 Met Ala Tyr Lys Met Met Asp Leu Glu Glu Val Ile Pro Leu Asp Cys  
 245 250 255

Cys Arg Leu  
259

<210> 831  
<211> 200  
<212> Amino acid  
<213> Homo sapiens

<400> 831  
Ser Val Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met  
1 5 10 15  
Val Thr Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala  
20 25 30  
Gln His Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly  
35 40 45  
Gln Ala Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys  
50 55 60  
Ala Arg Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly  
65 70 75 80  
Gln Glu Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser  
85 90 95  
Leu Leu Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu  
100 105 110  
Ala Thr Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu  
115 120 125  
Arg Asp Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu  
130 135 140  
Gly Pro Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys  
145 150 155 160  
Gln Ser His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg  
165 170 175  
Arg Glu Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg  
180 185 190  
Leu His Thr Ala Ala Leu Pro Ala  
195 200

<210> 832  
<211> 225  
<212> Amino acid  
<213> Homo sapiens

<400> 832  
Ile Thr Ser Val Asp Pro Arg Val Arg Gly Asn Ala Ser Thr Gly Tyr  
1 5 10 15  
Gly Lys Ile Trp Leu Asp Asp Val Ser Cys Asp Gly Asp Glu Ser Asp  
20 25 30  
Leu Trp Ser Cys Arg Asn Ser Gly Trp Gly Asn Asn Asp Cys Ser His  
35 40 45  
Ser Glu Asp Val Gly Val Ile Cys Ser Asp Ala Ser Asp Met Glu Leu  
50 55 60  
Arg Leu Val Gly Gly Ser Ser Arg Cys Ala Gly Lys Val Glu Val Asn  
65 70 75 80  
Val Gln Gly Ala Val Gly Ile Leu Cys Ala Asn Gly Trp Gly Met Asn  
85 90 95

```

Ile Ala Glu Val Val Cys Arg Gln Leu Glu Cys Gly Ser Ala Ile Arg
      100      105      110
Val Ser Arg Glu Pro His Phe Thr Glu Arg Thr Leu His Ile Leu Met
      115      120      125
Ser Asn Ser Gly Cys Ala Gly Gly Glu Ala Ser Leu Trp Asp Cys Ile
      130      135      140
Arg Trp Glu Trp Lys Gln Thr Ala Cys His Leu Asn Met Glu Ala Ser
145      150      155      160
Leu Ile Cys Ser Ala His Arg Gln Pro Arg Leu Val Gly Ala Asp Met
      165      170      175
Pro Cys Ser Gly Arg Val Glu Val Lys His Ala His Thr Trp Arg Ser
      180      185      190
Val Cys Asp Ser Asp Phe Ser Leu His Ala Ala Asn Val Leu Cys Arg
      195      200      205
Glu Leu Asn Cys Gly Asp Ala Ile Ser Leu Ser Val Gly Asp His Phe
      210      215      220
Gly
225

```

```

<210> 833
<211> 206
<212>Amino acid
<213> Homo sapiens

```

```

<400> 833
Ser Asn Tyr Pro Ser Ser Arg Phe Arg Val Ala Gly Ile Thr Gly Val
 1      5      10      15
Lys Leu Gly Met Arg Ser Ile Pro Ile Ala Thr Ala Cys Thr Ile Tyr
      20      25      30
His Lys Phe Phe Cys Glu Thr Asn Leu Asp Ala Tyr Asp Pro Tyr Leu
      35      40      45
Ile Ala Met Ser Ser Ile Tyr Leu Ala Gly Lys Val Glu Glu Gln His
      50      55      60
Leu Arg Thr Arg Asp Ile Ile Asn Val Ser Asn Arg Tyr Phe Asn Pro
      65      70      75      80
Ser Gly Glu Pro Leu Glu Leu Asp Ser Arg Phe Trp Glu Leu Arg Asp
      85      90      95
Ser Ile Val Gln Cys Glu Leu Leu Met Leu Arg Val Leu Arg Phe Gln
      100      105      110
Val Ser Phe Gln His Pro His Lys Tyr Leu Leu His Tyr Leu Val Ser
      115      120      125
Leu Gln Asn Trp Leu Asn Arg His Ser Trp Gln Arg Thr Pro Val Ala
      130      135      140
Val Thr Ala Trp Ala Leu Leu Arg Asp Ser Tyr His Gly Ala Leu Cys
145      150      155      160
Leu Arg Phe Gln Ala Gln His Ile Ala Val Ala Val Leu Tyr Leu Ala
      165      170      175
Leu Gln Val Tyr Gly Val Glu Val Pro Ala Glu Val Glu Ala Asp Glu
      180      185      190
Ala Val Gly Trp Gln Ile Tyr Ala Met Asp Thr Glu Ile Pro
      195      200      205 206

```

```

<210> 834
<211> 86
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 834

```

Arg Gly Ser Arg His Ala Val His Gly Trp Ala Phe Gly Leu Leu Phe
 1           5           10          15
Ile Asn Lys Glu Ser Val Val Met Ala Tyr Leu Phe Thr Thr Phe Asn
      20           25           30
Ala Phe Gln Gly Val Phe Ile Phe Val Phe His Cys Ala Leu Gln Lys
      35           40           45
Lys Val Arg Ser Arg Arg Gly Pro Gly Ser Gln Pro Pro Leu Glu Thr
      50           55           60
Phe Pro Gly Tyr Pro Gly Glu Gly Gly Glu Gly Gly Gly Asp Ser Gly
      65           70           75           80
Ala Pro Ser Ser Pro Gln
              85 86

```

&lt;210&gt; 835

&lt;211&gt; 110

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(110)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 835

```

Ala Arg Lys Asp Asp Leu Pro Pro Asn Met Arg Phe His Glu Glu Lys
 1           5           10          15
Arg Leu Asp Phe Glu Trp Thr Leu Lys Ala Gly Xaa Glu Lys Gly Xaa
      20           25           30
Pro Ser Lys Xaa Asn Lys Gly Trp Glu Gly Gln Glu Xaa Xaa Xaa Thr
      35           40           45
Val Arg Asp Xaa Gly Ile Ser Xaa Xaa Val Lys Pro Gln His Leu Ser
      50           55           60
Xaa Ala Leu Gln Met Ala Leu Lys Arg Val Tyr Thr Leu Leu Ser Ser
      65           70           75           80
Trp Asn Cys Leu Glu Asp Phe Asp Gln Ile Phe Trp Gly Gln Lys Ser
              85           90           95
Ala Leu Ala Gly Gln Trp Phe Pro Glu Val Ser Ile Ile Pro
      100           105           110

```

&lt;210&gt; 836

&lt;211&gt; 70

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(70)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 836

Gly Lys Gln Gln Arg Glu Thr Leu Arg Arg Pro Ser Pro Thr Ile Ser  
 1 5 10 15  
 Val Gln Arg Ala Gly Ser Pro Glu His Ser Ser Ala Ser His Xaa His  
 20 25 30  
 Ser Pro Cys Pro Ala Pro Gly Gln Arg Val Leu Pro Thr Ala Leu Cys  
 35 40 45  
 Thr Leu Met Thr Ser Lys His Phe His Gly Cys Pro Leu Ala Gly Gln  
 50 55 60  
 Gly Arg Ala Val Thr Leu  
 65 70

&lt;210&gt; 837

&lt;211&gt; 473

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 837

Gly Val Cys Gly Leu Pro Arg Phe Cys Gly Ser Ile Ile Leu Cys His  
 1 5 10 15  
 Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp  
 20 25 30  
 Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly Gly Ser Phe Gly Ser Val  
 35 40 45  
 Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys Glu Val Ala Val Lys Lys  
 50 55 60  
 Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile Leu Ser Val Leu Ser His  
 65 70 75 80  
 Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile Leu Glu Pro Pro Asn Tyr  
 85 90 95  
 Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly Ser Leu Tyr Asp Tyr Ile  
 100 105 110  
 Asn Ser Asn Arg Ser Glu Glu Met Asp Met Asp His Ile Met Thr Trp  
 115 120 125  
 Ala Thr Asp Val Ala Lys Gly Met His Tyr Leu His Met Glu Ala Pro  
 130 135 140  
 Val Lys Val Ile His Arg Asp Leu Lys Ser Arg Asn Val Val Ile Ala  
 145 150 155 160  
 Ala Asp Gly Val Leu Lys Ile Cys Asp Phe Gly Ala Ser Arg Phe His  
 165 170 175  
 Asn His Thr Thr His Met Ser Leu Val Gly Thr Phe Pro Trp Met Ala  
 180 185 190  
 Pro Glu Val Ile Gln Ser Leu Pro Val Ser Glu Thr Cys Asp Thr Tyr  
 195 200 205  
 Ser Tyr Gly Val Val Leu Trp Glu Met Leu Thr Arg Glu Val Pro Phe  
 210 215 220  
 Lys Gly Leu Glu Gly Leu Gln Val Ala Trp Leu Val Val Glu Lys Asn  
 225 230 235 240  
 Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro Arg Ser Phe Ala Glu Leu  
 245 250 255  
 Leu His Gln Cys Trp Glu Ala Asp Ala Lys Lys Arg Pro Ser Phe Lys  
 260 265 270  
 Gln Ile Ile Ser Ile Leu Glu Ser Met Ser Asn Asp Thr Ser Leu Pro  
 275 280 285  
 Asp Lys Cys Asn Ser Phe Leu His Asn Lys Ala Glu Trp Arg Cys Glu  
 290 295 300  
 Ile Glu Ala Thr Leu Glu Arg Leu Lys Lys Leu Glu Arg Asp Leu Ser  
 305 310 315 320  
 Phe Lys Glu Gln Glu Leu Lys Glu Arg Glu Arg Arg Leu Lys Met Trp  
 325 330 335

Glu Gln Lys Leu Thr Glu Gln Ser Asn Thr Pro Leu Leu Leu Pro Leu  
                           340                          345                          350  
 Ala Ala Arg Met Ser Glu Glu Ser Tyr Phe Glu Ser Lys Thr Glu Glu  
                           355                          360                          365  
 Ser Asn Ser Ala Glu Met Ser Cys Gln Ile Thr Ala Thr Ser Asn Gly  
                           370                          375                          380  
 Glu Gly His Gly Met Asn Pro Ser Leu Gln Ala Met Met Leu Met Gly  
 385                          390                          395                          400  
 Phe Gly Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser  
                           405                          410                          415  
 Gly Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr  
                           420                          425                          430  
 Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser Asp  
                           435                          440                          445  
 Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Asp Gly Glu Glu  
                           450                          455                          460  
 Glu Tyr Asn Asp Met Asp Asn Ser Glu  
 465                          470                          473

<210> 838  
 <211> 48  
 <212> Amino acid  
 <213> Homo sapiens

<400> 838  
 Met Leu Trp Glu Thr Gly Cys Ser Ala Ala Cys Arg Val Thr Val Ser  
   1                          5                          10                          15  
 Pro Thr Val Thr Phe Ala Thr Phe Ser Thr Arg Gly Ile Asp Ala Met  
                           20                          25                          30  
 Arg Pro Gly Pro Ser Phe Leu Trp Arg Gln Gln Leu Ser Gln Gly \*  
                           35                          40                          45                          47

<210> 839  
 <211> 116  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(116)  
 <223> X = any amino acid or stop code

<400> 839  
 Pro Thr Leu Gly Asp Gln Pro Asp Leu His Ser Ile Thr Arg Ala Ser  
   1                          5                          10                          15  
 Arg Pro Lys Leu Cys Thr Arg Lys Asn Cys Asn Pro Leu Thr Ile Thr  
                           20                          25                          30  
 Val His Asp Pro Asn Ser Thr Gln Xaa Tyr Tyr Gly Met Ser Trp Glu  
                           35                          40                          45  
 Leu Arg Phe Tyr Ile Pro Gly Phe Asp Val Gly Thr Met Phe Thr Ile  
                           50                          55                          60  
 Gln Lys Ile Leu Val Ser Trp Ser Pro Pro Lys Pro Ile Gly Pro Leu  
                           65                          70                          75                          80  
 Thr Asp Leu Gly Asp Pro Met Phe Gln Lys Pro Pro Asn Lys Val Asp

```

      85      90      95
Leu Thr Val Pro Pro Pro Phe Leu Val Ile Lys Asp Thr Leu Gln Lys
      100      105      110
Phe Glu Lys Ile
      115 116

```

```

<210> 840
<211> 138
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 840
Ser Leu Asn Asn Val Thr Leu Pro Gln Ala Lys Thr Glu Lys Asp Phe
 1      5      10      15
Ile Gln Leu Cys Thr Pro Gly Val Ile Lys Gln Glu Lys Leu Gly Thr
      20      25      30
Val Tyr Cys Gln Ala Ser Ser Pro Gly Ala Asn Met Ile Gly Asn Lys
      35      40      45
Met Ser Ala Ile Ser Val His Gly Val Ser Thr Ser Gly Gly Gln Met
      50      55      60
Tyr His Tyr Asp Met Asn Thr Ala Ser Leu Ser Gln Gln Xaa Asp Gln
      65      70      75      80
Lys Pro Ile Phe Asn Val Ile Pro Pro Ile Pro Val Gly Ser Glu Asn
      85      90      95
Trp Asn Arg Cys Gln Gly Ser Gly Asp Asp Asn Leu Thr Ser Leu Gly
      100      105      110
Thr Leu Asn Phe Pro Gly Arg Thr Val Ser Phe Ser Phe Glu Met Glu
      115      120      125
Ser Arg Ser Val Ala Gln Ala Gly Val Gln
      130      135      138

```

```

<210> 841
<211> 82
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(82)
<223> X = any amino acid or stop code

```

```

<400> 841
Arg His Thr Gln Glu Cys Arg Cys Pro His Thr His Ile His Thr His
 1      5      10      15
Thr His Ser His Thr His Ser His Thr His Ser His Ser His Ser His
      20      25      30
Thr Thr Pro Arg Cys Ser His Thr Gln Pro Pro His Ala Gln Ala Pro
      35      40      45
Ala Leu Cys Xaa Ser Xaa Glu Asp Arg Gly Gln Pro Thr Trp Lys Leu

```





```

      130              135              140
Met Val Ala Met Gly Phe Gln Ala Lys Asn Ile Ser Val Ala Ile Ile
145              150              155              160
Glu Arg Lys Phe Asn Tyr Pro Met Ala Thr Tyr Leu Ile Leu Glu His
      165              170              175
Thr Lys Gln Glu Arg Lys Cys Ser Thr Ile Arg Glu Leu Ser Leu Pro
      180              185              190
Pro Gly Val Pro Thr Ser Pro Ser Pro Ser Thr Glu Leu Ser Thr Phe
      195              200              205
Pro Leu Ser Leu Met Arg Ala His Arg Glu Pro Ala Phe Asn Val Gln
      210              215              220
Pro Pro Glu Glu Ser Gln
225              230

```

```

<210> 844
<211> 258
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> X = any amino acid or stop code

```

```

      <400> 844
Ala Lys Gln Glu Leu Ala Lys Leu Met Arg Ile Glu Asp Pro Ser Leu
 1              5              10              15
Leu Asn Ser Arg Val Leu Leu His His Ala Lys Ala Gly Thr Ile Ile
      20              25              30
Ala Arg Gln Gly Asp Gln Asp Val Ser Leu His Phe Val Leu Trp Gly
      35              40              45
Cys Leu His Val Tyr Gln Arg Met Ile Asp Lys Ala Glu Asp Val Cys
      50              55              60
Leu Phe Val Ala Gln Pro Gly Glu Leu Val Gly Gln Leu Ala Val Leu
      65              70              75              80
Thr Gly Glu Pro Leu Ile Phe Thr Leu Arg Ala Gln Arg Asp Cys Thr
      85              90              95
Phe Leu Arg Ile Ser Lys Ser Asp Phe Tyr Glu Ile Met Arg Ala Gln
      100              105              110
Pro Ser Val Val Leu Ser Ala Ala His Thr Val Ala Ala Arg Met Ser
      115              120              125
Pro Phe Val Arg Gln Met Asp Phe Ala Ile Asp Trp Thr Ala Val Glu
      130              135              140
Ala Gly Arg Ala Leu Tyr Arg Cys Ser Ser His Arg Ala Ala Gln Ala
145              150              155              160
Arg Pro Arg Gly Gly Asp Leu Gly Val Val Arg Pro Cys Xaa Pro Pro
      165              170              175
Arg Pro Leu Arg Gln Gly Asp Arg Ser Asp Cys Thr Tyr Ile Val Leu
      180              185              190
Asn Gly Arg Leu Arg Ser Val Ile Gln Arg Gly Ser Gly Lys Lys Glu
      195              200              205
Leu Val Gly Glu Tyr Gly Arg Gly Asp Leu Ile Gly Val Val Ser Ala
      210              215              220
Thr Pro Thr His Xaa Pro Leu Ala Phe Ser Arg Pro Val Pro Arg Gln
225              230              235              240
Leu Thr Arg Ile Ile Pro Gly Asn Pro Gly Ser Gly Glu Val Phe Pro
      245              250              255
Gly Ala
258

```

<210> 845  
 <211> 235  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(235)  
 <223> X = any amino acid or stop code

<400> 845  
 His Ala Ser Gly Trp Thr Pro Gly Thr Thr Gln Thr Leu Gly Gln Gly  
 1 5 10 15  
 Thr Ala Trp Asp Thr Val Ala Ser Thr Pro Gly Thr Ser Glu Thr Thr  
 20 25 30  
 Ala Ser Ala Glu Gly Arg Arg Thr Pro Gly Ala Thr Arg Pro Ala Ala  
 35 40 45  
 Pro Gly Thr Gly Ser Trp Ala Glu Gly Ser Val Lys Ala Pro Ala Pro  
 50 55 60  
 Ile Pro Glu Ser Pro Pro Ser Lys Ser Arg Ser Met Ser Asn Thr Thr  
 65 70 75 80  
 Glu Gly Val Trp Glu Gly Thr Arg Ser Ser Val Thr Asn Arg Ala Arg  
 85 90 95  
 Ala Ser Lys Asp Arg Arg Glu Met Thr Thr Thr Lys Ala Asp Arg Pro  
 100 105 110  
 Arg Glu Asp Ile Glu Gly Val Arg Ile Ala Leu Asp Ala Ala Lys Lys  
 115 120 125  
 Val Leu Gly Thr Ile Gly Pro Pro Ala Leu Val Ser Glu Thr Leu Ala  
 130 135 140  
 Trp Glu Ile Leu Pro Gln Ala Thr Pro Val Ser Lys Gln Gln Ser Gln  
 145 150 155 160  
 Gly Ser Ile Gly Glu Thr Thr Pro Ala Ala Gly Met Trp Thr Leu Gly  
 165 170 175  
 Thr Pro Ala Ala Asp Val Trp Ile Leu Gly Thr Pro Ala Ala Asp Val  
 180 185 190  
 Trp Thr Ser Met Glu Ala Ala Ser Gly Glu Gly Ser Ala Ala Gly Asp  
 195 200 205  
 Leu Asp Ala Ala Thr Gly Asp Arg Gly Pro Gln Ala Thr Leu Ser Gln  
 210 215 220  
 Thr Pro Ala Val Xaa Pro Trp Gly Pro Pro Gly  
 225 230 235

<210> 846  
 <211> 134  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(134)  
 <223> X = any amino acid or stop code

<400> 846

```

Ala Gly Thr Ser Gly Thr Gly Asp Thr Gly Pro Gly Asn Thr Ala Val
 1           5           10           15
Ser Gly Thr Pro Val Val Ser Pro Gly Ala Thr Pro Gly Ala Pro Gly
          20           25           30
Ser Ser Thr Pro Gly Glu Ala Asp Ile Gly Asn Thr Ser Phe Gly Lys
          35           40           45
Ser Gly Thr Pro Thr Val Ser Ala Ala Ser Thr Thr Ser Ser Pro Val
          50           55           60
Ser Lys His Thr Asp Ala Ala Ser Ala Thr Ala Val Thr Ile Ser Gly
          65           70           75           80
Ser Lys Pro Gly Thr Pro Gly Thr Pro Gly Gly Ala Thr Ser Gly Gly
          85           90           95
Lys Ile Thr Pro Gly Ile Ala Xaa Pro Thr Leu Asp Gln Lys Ser Pro
          100          105          110
Cys Phe Ser Gly Tyr Gly Gly Tyr Phe Pro Val Asn Pro His Gln Asn
          115          120          125
Pro Cys Ala Asp Ser Leu
          130          134

```

&lt;210&gt; 847

&lt;211&gt; 188

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(188)

&lt;223&gt; X = any amino acid or stop code

```

          <400> 847
Arg Ala His Arg Cys Cys Leu Pro Leu Pro Ser Leu Ser Cys Glu Ile
 1           5           10           15
Gln Ile Gly Phe Ser Xaa Ser Ser Ile Phe Pro Gly Gln Xaa Ala Cys
          20           25           30
Pro Cys Ser Cys Cys Arg Ser Cys Arg Arg Asn Trp Pro Gln Ser Pro
          35           40           45
Arg Cys Pro His His Pro Pro Ala Pro Cys Ser Leu Leu Ser Ser
          50           55           60
Cys Leu Pro Pro Pro Leu Ser Cys Ser Trp Arg Gly Thr Ser Gly Lys
          65           70           75           80
Pro Pro Ser Gln Ser Pro Ala Ala Ser Arg Ser Met Arg Pro Arg Cys
          85           90           95
Ser Pro Arg Thr Ser Ser Leu Arg Gly Ala Ser Cys Arg Gly Pro Gly
          100          105          110
Gly Ser Ala Pro Ala Ala Ala Ser Gly Pro Arg Cys Arg Gly Cys Ser
          115          120          125
Arg Ser Pro Arg Arg Cys Ser Arg Ser Gly Cys Ala Ala Ala Ser Pro
          130          135          140
Pro Arg Ser Gln Arg Arg Ser Pro Pro Leu Ser Pro Pro Pro Phe Pro
          145          150          155          160
Thr Ser Gly Thr Leu Leu Leu Lys Thr Ser Arg Phe Gly Ser Ala Thr
          165          170          175
Arg Glu Xaa Ser Ser Pro Arg Pro Arg Pro Arg Pro
          180          185          188

```

&lt;210&gt; 848

&lt;211&gt; 328

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(328)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 848

```

Asp Asp Val Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
 1          5          10          15
Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
          20          25          30
Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
          35          40          45
Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys
          50          55          60
Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
          65          70          75          80
Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
          85          90          95
Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
          100          105          110
Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
          115          120          125
Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
          130          135          140
Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
          145          150          155          160
Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
          165          170          175
His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
          180          185          190
Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
          195          200          205
Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
          210          215          220
Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
          225          230          235          240
Ser Leu Leu Phe Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
          245          250          255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
          260          265          270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
          275          280          285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
          290          295          300
Tyr Val His Leu Thr Gly Gly Arg Arg Ser Phe Xaa Lys Thr Gln Lys
          305          310          315          320
Glu Leu Leu Gly Lys Arg Ala Ala
          325          328

```

&lt;210&gt; 849

&lt;211&gt; 98

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(98)

<223> X = any amino acid or stop code

<400> 849

```

Met Ala Thr Asp Glu Glu Asn Val Tyr Gly Leu Glu Glu Asn Ala Gln
 1          5          10          15
Ser Arg Gln Glu Ser Thr Arg Arg Leu Ile Leu Val Gly Arg Thr Gly
          20          25          30
Ala Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu Gly Gln Arg Arg Phe
          35          40          45
Phe Ser Arg Leu Gly Ala Thr Ser Val Thr Arg Ala Cys Thr Thr Gly
          50          55          60
Ser Arg Arg Trp Asp Lys Cys His Val Glu Val Val Asp Thr Pro Asp
65          70          75          80
Ile Phe Ser Ser Gln Val Ser Lys Thr Asp Pro Gly Cys Glu Glu Arg
          85          90          95
Xaa *
97

```

<210> 850

<211> 94

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(94)

<223> X = any amino acid or stop code

<400> 850

```

Thr Leu Gly Leu Arg Ser Leu Thr Lys Glu Gly Gly Gly Gly Gly Asp
 1          5          10          15
Val Ala Ala Phe Glu Val Gly Thr Gly Ala Ala Ala Ser Arg Ala Leu
          20          25          30
Gly Gln Cys Gly Gln Leu Gln Lys Leu Ile Val Ile Phe Ile Gly Ser
          35          40          45
Leu Cys Gly Leu Cys Thr Lys Cys Ala Val Ser Asn Asp Leu Thr Gln
          50          55          60
Gln Glu Ile Gln Thr Pro Glu Ile Gln Gln Arg Asn Ala Xaa Cys Asp
65          70          75          80
Ser Arg Val Thr Phe Thr Asn Glu Gly Gly Arg Trp Trp Gly
          85          90          94

```

<210> 851

<211> 50

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(50)

<223> X = any amino acid or stop code

&lt;400&gt; 851

```

Phe Phe Phe Leu Val Glu Thr Arg Phe His His Ile Gly Gln Ala Gly
 1           5           10           15
Leu Glu Leu Leu Thr Leu Ser Ile Lys Xaa Ser Ala Arg Leu Gly Leu
           20           25           30
Pro Lys Cys Trp Asp Asp Arg Arg Glu Pro Pro Tyr Leu Ala Gly Phe
           35           40           45
Met Ile
           50

```

&lt;210&gt; 852

&lt;211&gt; 143

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 852

```

Arg Arg Ser Pro Pro Pro Ala Pro Pro Pro Leu Pro Ser Pro Leu Ser
 1           5           10           15
Pro Pro Pro Arg Ala Pro Val Ser Pro Ala Ser Thr Met Pro Ile Leu
           20           25           30
Leu Phe Leu Ile Asp Thr Ser Ala Ser Met Asn Gln Arg Ser His Leu
           35           40           45
Gly Thr Thr Tyr Leu Asp Thr Ala Lys Gly Ala Val Glu Thr Phe Met
           50           55           60
Lys Leu Arg Ala Arg Asp Pro Ala Ser Arg Gly Asp Arg Tyr Met Leu
           65           70           75           80
Val Thr Phe Glu Glu Pro Pro Tyr Ala Ile Lys Ala Gly Trp Lys Glu
           85           90           95
Asn His Ala Thr Phe Met Asn Glu Leu Lys Asn Leu Gln Ala Glu Gly
           100           105           110
Leu Thr Thr Leu Gly Gln Ser Leu Arg Thr Ala Phe Asp Leu Leu Asn
           115           120           125
Leu Asn Arg Leu Val Thr Gly Ile Asp Asn Tyr Gly Gln Val Gly
           130           135           140           143

```

&lt;210&gt; 853

&lt;211&gt; 154

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 853

```

Asn Cys Arg Thr Tyr Val Phe Cys Phe Val Leu Val Phe Arg Leu Leu
 1           5           10           15
Phe Leu His Gly Ser Pro Leu Ser Pro Ser Leu Leu Ser Arg Ala Gly
           20           25           30
Leu Leu Cys Gly Ser Ala Glu Asn Pro Thr Pro Phe Leu Cys Gly Ile
           35           40           45
Thr Met Ala Ala Gly Val Ser Leu Leu Ala Leu Val Val Arg Val Ile
           50           55           60
Leu Ser Thr Ala Ile Leu Cys Pro Ser Gly Ala Ser Arg Arg Gln Arg
           65           70           75           80
Ser Ser Glu Val Glu Trp Gly Thr Asp Ser Gly Val Tyr Arg Leu Tyr

```

```

      85              90              95
Cys Trp Arg Val Gly Phe Leu Gly Pro Gly Gly Glu Leu Arg Leu Gly
      100              105              110
Leu Ser Glu Ala Arg Gly Gly Arg Val Trp Gly Arg Gly Glu Lys Arg
      115              120              125
Cys Arg Val Trp Ala Val Arg Ser Leu Arg Lys Gly Phe Gly Ser Val
      130              135              140
Ala Ala Leu Arg Arg Gly Ile Trp Ala Gly
145              150              154

```

&lt;210&gt; 854

&lt;211&gt; 90

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(90)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 854

```

Val Thr Pro Thr Pro Pro Gln Tyr Tyr Thr Cys Ser Cys Val Leu Gly
  1              5              10              15
Phe Ile Ala Cys Ser Ile Phe Leu Gln Met Ser Leu Lys Pro Lys Val
      20              25              30
Met Leu Leu Thr Val Ala Leu Val Ala Cys Leu Val Leu Phe Asn Leu
      35              40              45
Ser Gln Cys Trp Gln Arg Asp Cys Cys Ser Gln Gly Leu Gly Asn Leu
      50              55              60
Thr Glu Pro Ser Gly Thr Asn Arg Xaa Gly Pro Ala Ala Val Ser Trp
      65              70              75              80
Ala Ser Leu Pro Ala Pro Ser Ser Cys Arg
      85              90

```

&lt;210&gt; 855

&lt;211&gt; 61

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(61)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 855

```

Gly Lys Ala Gly Gly Ala Ala Gly Leu Phe Ala Lys Gln Val Gln Lys
  1              5              10              15
Lys Phe Ser Arg Ala Gln Glu Lys Xaa Thr Arg Arg Phe Gly Lys Thr
      20              25              30
Cys Gln Pro Glu Glu Arg Ala Arg Glu Glu Arg Gln Glu Gly Pro Glu
      35              40              45
Ile Glu Phe Gly Phe Ser Phe Phe Ser Leu Ser Leu Tyr
      50              55              60 61

```

<210> 856  
 <211> 779  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(779)  
 <223> X = any amino acid or stop code

<400> 856  
 Pro Lys Arg Leu Phe Leu Phe Gln Asp Val Asn Thr Leu Gln Gly Gly  
 1 5 10 15  
 Gly Gln Pro Val Thr Pro Ser Val Gln Pro Ser Leu Gln Pro Ala  
 20 25 30  
 His Pro Ala Leu Pro Gln Met Thr Ser Gln Ala Pro Gln Pro Ser Val  
 35 40 45  
 Thr Gly Leu Gln Ala Pro Ser Ala Ala Leu Met Gln Val Ser Ser Leu  
 50 55 60  
 Asp Ser His Ser Ala Val Ser Gly Asn Ala Gln Ser Phe Gln Pro Tyr  
 65 70 75 80  
 Ala Gly Met Gln Ala Tyr Ala Tyr Pro Gln Ala Ser Ala Val Thr Ser  
 85 90 95  
 Gln Leu Gln Pro Val Arg Pro Leu Tyr Pro Ala Pro Leu Ser Gln Pro  
 100 105 110  
 Pro His Phe Gln Gly Ser Gly Asp Met Ala Ser Phe Leu Met Thr Glu  
 115 120 125  
 Ala Arg Gln His Asn Thr Glu Ile Arg Met Ala Val Ser Lys Val Ala  
 130 135 140  
 Asp Lys Met Asp His Leu Met Thr Lys Val Glu Glu Leu Gln Lys His  
 145 150 155 160  
 Ser Ala Gly Asn Ser Met Leu Ile Pro Ser Met Ser Val Thr Met Glu  
 165 170 175  
 Thr Ser Met Ile Met Ser Asn Ile Gln Arg Ile Ile Gln Glu Asn Glu  
 180 185 190  
 Arg Leu Lys Gln Glu Ile Leu Glu Lys Ser Asn Arg Ile Glu Glu Gln  
 195 200 205  
 Asn Asp Lys Ile Ser Glu Leu Ile Glu Arg Asn Gln Arg Tyr Val Glu  
 210 215 220  
 Gln Ser Asn Leu Met Met Glu Lys Arg Asn Asn Ser Leu Gln Thr Ala  
 225 230 235 240  
 Thr Glu Asn Thr Gln Ala Arg Val Leu His Ala Glu Gln Glu Lys Ala  
 245 250 255  
 Lys Val Thr Glu Leu Ala Ala Ala Thr Ala Gln Val Ser His Leu  
 260 265 270  
 Gln Leu Lys Met Thr Ala His Gln Lys Lys Glu Thr Glu Leu Gln Met  
 275 280 285  
 Gln Leu Thr Glu Ser Leu Lys Glu Thr Asp Leu Leu Arg Gly Gln Leu  
 290 295 300  
 Thr Lys Val Gln Ala Lys Leu Ser Glu Leu Gln Glu Thr Ser Glu Gln  
 305 310 315 320  
 Ala Gln Ser Lys Phe Lys Ser Glu Lys Gln Asn Arg Lys Gln Leu Glu  
 325 330 335  
 Leu Lys Val Thr Ser Leu Glu Glu Glu Leu Thr Asp Leu Arg Val Glu  
 340 345 350  
 Lys Glu Ser Leu Glu Lys Asn Leu Ser Glu Arg Lys Lys Lys Ser Ala  
 355 360 365  
 Gln Glu Arg Ser Gln Ala Glu Glu Ile Asp Glu Ile Arg Lys Ser  
 370 375 380



```

Tyr Gln Glu Glu Leu Asp Lys Leu Arg Gln Leu Leu Lys Lys Thr Arg
385                               390                               395                               400
Val Ser Thr Asp Gln Ala Ala Ala Glu Gln Leu Ser Leu Val Gln Ala
                               405                               410                               415
Glu Leu Gln Thr Gln Trp Glu Ala Lys Cys Glu His Leu Leu Ala Ser
                               420                               425                               430
Ala Lys Asp Glu His Leu Gln Gln Tyr Gln Glu Val Cys Ala Gln Arg
                               435                               440                               445
Asp Ala Tyr Gln Gln Lys Leu Val Gln Leu Gln Glu Lys Ser Val Cys
                               450                               455                               460
Phe Ala Cys Leu Ala Leu Gln Ala Gln Ile Thr Ala Leu Thr Lys Gln
465                               470                               475                               480
Asn Glu Gln His Ile Lys Glu Leu Glu Lys Asn Lys Ser Gln Met Ser
                               485                               490                               495
Gly Val Glu Ala Ala Ala Ser Asp Pro Ser Glu Lys Val Lys Lys Ile
                               500                               505                               510
Met Asn Gln Val Phe Gln Ser Leu Arg Arg Glu Phe Glu Leu Glu Glu
                               515                               520                               525
Ser Tyr Asn Gly Arg Thr Ile Leu Gly Thr Ile Met Asn Thr Ile Lys
530                               535                               540
Met Val Thr Leu Gln Leu Leu Asn Gln Gln Glu Gln Glu Lys Glu Glu
545                               550                               555                               560
Ser Ser Ser Glu Glu Glu Glu Glu Lys Ala Glu Glu Arg Pro Arg Arg
                               565                               570                               575
Pro Ser Gln Glu Gln Ser Ala Ser Ala Ser Ser Gly Gln Pro Gln Ala
                               580                               585                               590
Pro Leu Asn Arg Glu Arg Pro Glu Ser Pro Met Val Pro Ser Glu Gln
595                               600                               605
Val Val Glu Glu Ala Val Pro Leu Pro Pro Gln Ala Leu Thr Thr Ser
610                               615                               620
Gln Asp Gly His Arg Arg Lys Gly Asp Ser Glu Ala Glu Ala Leu Ser
625                               630                               635                               640
Glu Ile Lys Asp Gly Ser Leu Pro Pro Glu Leu Ser Cys Ile Pro Ser
                               645                               650                               655
His Arg Val Leu Gly Pro Pro Thr Ser Ile Pro Pro Glu Pro Leu Gly
660                               665                               670
Pro Val Ser Met Asp Ser Glu Cys Glu Glu Ser Leu Ala Ala Ser Pro
675                               680                               685
Met Ala Ala Lys Pro Asp Asn Pro Ser Gly Lys Val Cys Val Gln Gly
690                               695                               700
Lys Xaa Ala Pro Asp Gly Pro Thr Tyr Lys Glu Ser Ser Thr Arg Leu
705                               710                               715                               720
Phe Pro Gly Phe Gln Asp Pro Glu Glu Gly Asp Pro Leu Ala Leu Gly
725                               730                               735
Leu Glu Ser Pro Gly Glu Pro Gln Pro Pro Gln Leu Gln Gly Lys Val
740                               745                               750
Asp Val His Xaa Val Pro Pro Val Pro His Lys Gly Ala Phe Gln Glu
755                               760                               765
Gln Glu Gly Arg Phe Pro Gln Phe Cys Arg Glu
770                               775                               779

```

<210> 857  
 <211> 510  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(510)  
 <223> X = any amino acid or stop code

<400> 857  
 Ser Glu Thr Ala Gln Gln Ile Ile Asp Arg Leu Arg Val Lys Leu Ala  
 1 5 10 15  
 Lys Glu Pro Gly Ala Asn Leu Phe Leu Met Ala Val Gln Asp Ile Arg  
 20 25 30  
 Val Gly Gly Arg Gln Ser Asn Ala Ser Tyr Gln Tyr Thr Leu Leu Ser  
 35 40 45  
 Asp Asp Leu Ala Ala Leu Arg Glu Trp Glu Pro Lys Ile Arg Lys Lys  
 50 55 60  
 Leu Ala Thr Leu Pro Glu Leu Ala Asp Val Asn Ser Asp Gln Gln Asp  
 65 70 75 80  
 Asn Gly Ala Glu Met Asn Leu Val Tyr Asp Arg Asp Thr Met Ala Arg  
 85 90 95  
 Leu Gly Ile Asp Val Gln Ala Ala Asn Ser Leu Leu Asn Asn Ala Phe  
 100 105 110  
 Gly Gln Arg Gln Ile Ser Thr Ile Tyr Gln Pro Met Asn Gln Tyr Lys  
 115 120 125  
 Val Val Met Glu Val Asp Pro Arg Tyr Thr Gln Asp Ile Ser Ala Leu  
 130 135 140  
 Glu Lys Met Phe Val Ile Asn Asn Glu Gly Lys Ala Ile Pro Leu Ser  
 145 150 155 160  
 Tyr Phe Ala Lys Trp Gln Pro Ala Asn Ala Pro Leu Ser Val Asn His  
 165 170 175  
 Gln Gly Leu Ser Ala Ala Leu Thr Ile Ser Phe Asn Leu Pro Thr Gly  
 180 185 190  
 Lys Ser Leu Ser Asp Ala Ser Ala Ala Ile Asp Arg Ala Met Ser Gln  
 195 200 205  
 Leu Gly Val Pro Ser Thr Val Arg Gly Ser Phe Ala Gly Pro Ala Gln  
 210 215 220  
 Val Phe Gln Glu Thr Met Asn Ser Gln Val Ile Leu Ile Ile Ala Ala  
 225 230 235 240  
 Ile Ala Thr Val Tyr Ile Val Leu Gly Ile Pro Tyr Glu Arg Tyr Val  
 245 250 255  
 His Pro Pro Thr Ile Leu Leu Xaa Arg Pro Gly Ala Asn Leu Phe Leu  
 260 265 270  
 Met Ala Val Gln Asp Ile Arg Val Gly Gly Arg Gln Ser Asn Ala Ser  
 275 280 285  
 Tyr Gln Tyr Thr Leu Leu Ser Asp Asp Leu Ala Ala Leu Arg Glu Trp  
 290 295 300  
 Glu Pro Lys Ile Arg Lys Lys Leu Ala Thr Leu Pro Glu Leu Ala Asp  
 305 310 315 320  
 Val Asn Ser Asp Gln Gln Asp Asn Gly Ala Glu Met Asn Leu Val Tyr  
 325 330 335  
 Asp Arg Asp Thr Met Ala Arg Leu Gly Ile Asp Val Gln Ala Ala Asn  
 340 345 350  
 Ser Leu Leu Asn Asn Ala Phe Gly Gln Arg Gln Ile Ser Thr Ile Tyr  
 355 360 365  
 Gln Pro Met Asn Gln Tyr Lys Val Val Met Glu Val Asp Pro Arg Tyr  
 370 375 380  
 Thr Gln Asp Ile Ser Ala Leu Glu Lys Met Phe Val Ile Asn Asn Glu  
 385 390 395 400  
 Gly Lys Ala Ile Pro Leu Ser Tyr Phe Ala Lys Trp Gln Pro Ala Asn  
 405 410 415  
 Ala Pro Leu Ser Val Asn His Gln Gly Leu Ser Ala Ala Leu Thr Ile  
 420 425 430  
 Ser Phe Asn Leu Pro Thr Gly Lys Ser Leu Ser Asp Ala Ser Ala Ala  
 435 440 445  
 Ile Asp Arg Ala Met Ser Gln Leu Gly Val Pro Ser Thr Val Arg Gly  
 450 455 460  
 Ser Phe Ala Gly Pro Ala Gln Val Phe Gln Glu Thr Met Asn Ser Gln  
 465 470 475 480  
 Val Ile Leu Ile Ile Ala Ala Ile Ala Thr Val Tyr Ile Val Leu Gly

485 490 495  
 Ile Pro Tyr Glu Arg Tyr Val His Pro Pro Thr Ile Leu Leu  
 500 505 510

<210> 858  
 <211> 137  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> X = any amino acid or stop code

<400> 858  
 Ile Ile Thr Pro Asp Ala Met Gly Cys Gln Lys Asp Ile Ala Glu Lys  
 1 5 10 15  
 Ile Gln Lys Gln Gly Gly Asp Tyr Leu Phe Ala Val Lys Gly Asn Gln  
 20 25 30  
 Gly Arg Leu Asn Lys Ala Phe Glu Glu Lys Phe Pro Leu Lys Glu Leu  
 35 40 45  
 Asn Asn Pro Glu His Asp Ser Tyr Ala Ile Ser Glu Lys Ser His Gly  
 50 55 60  
 Arg Glu Glu Ile Arg Leu His Ile Val Cys Asp Val Pro Asp Glu Leu  
 65 70 75 80  
 Ile Asp Phe Thr Phe Glu Trp Lys Gly Leu Lys Lys Leu Cys Val Ala  
 85 90 95  
 Val Ser Phe Arg Ser Ile Ile Ala Glu Gln Lys Lys Glu Pro Glu Met  
 100 105 110  
 Thr Val Arg Tyr Asn Ile Ser Xaa Leu Gly Ile Ala Gly Asp Ile Ser  
 115 120 125  
 Val Thr Ala Ile Ser Gly Thr Asp Asp  
 130 135 137

<210> 859  
 <211> 123  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(123)  
 <223> X = any amino acid or stop code

<400> 859  
 His Tyr Leu Lys Met Leu Thr Gln Ala Arg Arg Glu Val Ile Ile Ala  
 1 5 10 15  
 Asn Ala Tyr Phe Phe Pro Gly Tyr Arg Phe Leu His Ala Leu Arg Lys  
 20 25 30  
 Ala Ala Arg Arg Gly Val Arg Ile Lys Leu Ile Ile Gln Gly Glu Pro  
 35 40 45  
 Asp Met Pro Ile Val Arg Val Gly Ala Arg Leu Leu Tyr Asn Tyr Leu  
 50 55 60  
 Val Lys Gly Gly Val Gln Val Phe Glu Tyr Arg Arg Arg Pro Leu His

```

65              70              75              80
Gly Lys Val Ala Leu Met Asp Asp His Trp Ala Thr Val Gly Ser Ser
              85              90              95
Asn Leu His Pro Val Ser Xaa Ser Gly Asn Leu Gln Ala Asn Val Ile
              100              105              110
Leu His Val Leu Arg Val Pro Thr Leu Asn Pro
              115              120              123

```

```

<210> 860
<211> 190
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(190)
<223> X = any amino acid or stop code

```

```

<400> 860
Cys Trp Ser Lys Ser Ala Ala Phe His Ser Lys Leu Ala Thr Thr Cys
 1              5              10              15
Ile Val Pro Val Cys Ala Ala Gly His Cys Ser Ala Ala Trp Xaa Ser
              20              25              30
Leu Arg Pro Ile Glu Ala Leu Ala Lys Glu Val Arg Glu Leu Lys Xaa
* 35              40              45
His Thr Arg Xaa Leu Leu Asn Pro Ala Thr Thr Arg Glu Leu Thr Ser
 50              55              60
Leu Gly Arg Asn Leu Asn Arg Leu Leu Lys Ser Glu Arg Glu Arg Tyr
65              70              75              80
Asp Lys Tyr Arg Thr Leu Thr Asp Leu Thr His Ser Leu Lys Thr
              85              90              95
Pro Leu Ala Val Leu Gln Ser Thr Leu Arg Ser Leu Arg Ser Glu Lys
              100              105              110
Met Ser Val Ser Asp Ala Glu Pro Val Met Leu Glu Gln Ile Ser Arg
              115              120              125
Ile Ser Gln Gln Ile Gly Tyr Tyr Leu His Arg Ala Ser Met Arg Gly
              130              135              140
Gly Thr Leu Leu Ser Arg Glu Leu His Pro Val Ala Pro Leu Leu Asp
145              150              155              160
Asn Leu Thr Ser Ala Leu Ile Lys Gly Lys Pro Arg Lys Gly Gly Asn
              165              170              175
Val Thr Val Phe Pro Phe Thr Ala Met Tyr Arg Asp Gly His
              180              185              190

```

```

<210> 861
<211> 241
<212>Amino acid
<213> Homo sapiens

```

```

<400> 861
Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys Arg Lys His Thr
 1              5              10              15
Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr Asp Leu Thr Glu
              20              25              30

```

```

Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu Leu Ile Ile Thr
      35      40      45
Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln Thr Pro Val Lys
      50      55      60
Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg Pro Tyr Phe Cys
      65      70      75      80
Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys Phe Thr Met Cys
      85      90      95
Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro
      100      105      110
Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met
      115      120      125
Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile
      130      135      140
Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp Ile Phe Arg Met
      145      150      155      160
Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly Gly Pro Phe His
      165      170      175
Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val Thr Met Val Met
      180      185      190
Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala Leu
      195      200      205
Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met
      210      215      220
Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu
      225      230      235      240
Met
241

```

```

<210> 862
<211> 45
<212>Amino acid
<213> Homo sapiens

```

```

<400> 862
Glu Lys Ala Ala Ala Asn Ile Asp Glu Val Gln Lys Ser Asp Val
  1      5      10      15
Ser Ser Thr Gly Gln Gly Val Ile Asp Lys Asp Ala Leu Gly Pro Met
      20      25      30
Met Leu Glu Val Ala His Leu His Phe Ser Ala Val Phe
      35      40      45

```

```

<210> 863
<211> 120
<212>Amino acid
<213> Homo sapiens

```

```

<400> 863
Leu Glu Val Pro Ser Glu Val Thr Pro Leu Gly Phe Ala Met Gln Ala
  1      5      10      15
Thr Lys Thr Leu Leu Leu Arg Thr Cys Cys Leu Gln Glu Phe Asn Ile
      20      25      30
Met Glu Lys Asn Lys Gly Trp Ala Leu Leu Gly Gly Lys Asp Gly His
      35      40      45

```

Leu Gln Gly Leu Phe Leu Leu Ala Asn Ala Leu Leu Glu Arg Asn Gln  
 50 55 60  
 Leu Leu Ala Gln Lys Val Met Tyr Leu Leu Val Pro Leu Leu Asn Arg  
 65 70 75 80  
 Gly Asn Asp Lys His Lys Leu Thr Ser Ala Gly Phe Phe Val Glu Leu  
 85 90 95  
 Leu Arg Ser Pro Val Ala Lys Arg Leu Pro Ser Ile Tyr Ser Val Ala  
 100 105 110  
 Arg Phe Lys Asp Trp Leu Gln Asp  
 115 120

&lt;210&gt; 864

&lt;211&gt; 124

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(124)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 864

Arg Pro Ala Pro Ala Pro Ser Ala Ala Pro Glu Glu Ala Pro Ser Pro  
 1 5 10 15  
 Gly Val Lys Gly Arg Gly Met Ala Lys Arg Arg Val Pro Ala Pro Val  
 20 25 30  
 Trp Gly Gly Ala Gly Gly Gly Thr Lys Ser Ala Arg Arg Ala Ala Ala  
 35 40 45  
 Ala Pro Asp Thr Glu Arg Ser Glu Glu Gly Gly Arg Ala Val Lys Glu  
 50 55 60  
 Ala Tyr Pro Ser Ser Arg Gln Pro Pro Pro Pro Ser Pro Xaa Pro Leu  
 65 70 75 80  
 Arg Cys Ala Arg Arg Cys His Pro Asn Leu Ala Pro Ser Met Pro Ile  
 85 90 95  
 Ser Asn Arg Glu Gly Lys Gly Lys Arg Arg Glu Glu Lys Ile Arg Pro  
 100 105 110  
 Leu Ser Pro Ala Ser Thr His Thr Ser Ala Arg Ala  
 115 120 124

&lt;210&gt; 865

&lt;211&gt; 120

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 865

Leu Gln Gly Val His Gly Ser Ser Ser Thr Phe Cys Ser Ser Leu Ser  
 1 5 10 15  
 Ser Asp Phe Asp Pro Leu Glu Tyr Cys Ser Pro Lys Gly Asp Pro Gln  
 20 25 30  
 Arg Val Asp Met Gln Pro Ser Val Thr Ser Arg Pro Arg Ser Leu Asp  
 35 40 45  
 Ser Glu Val Pro Thr Gly Glu Thr Gln Val Ser Ser His Val His Tyr  
 50 55 60  
 His Arg His Arg His His His Tyr Lys Lys Arg Phe Gln Arg His Gly

```

65          70          75          80
Arg Lys Pro Gly Pro Glu Thr Gly Val Pro Gln Ser Arg Pro Pro Ile
          85          90          95
Pro Arg Thr Gln Pro Gln Pro Glu Pro Pro Ser Pro Asp Gln Gln Val
          100          105          110
Thr Arg Ser Asn Ser Ala Ala Pro
          115          120

```

<210> 866  
 <211> 82  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 866
Met Ala Asp Pro Asp Pro Arg Tyr Pro Arg Ser Ser Ile Glu Asp Asp
 1          5          10          15
Phe Asn Tyr Gly Ser Ser Glu Ala Ser Asp Thr Val His Ile Arg Met
          20          25          30
Ala Phe Leu Arg Arg Val Tyr Ser Ile Leu Ser Leu Gln Asp Leu Leu
          35          40          45
Ala Thr Val Thr Ser Thr Asp Asn Leu Ala Phe Glu Asp Gly Arg Thr
          50          55          60
Asp Trp Leu Gln Arg Pro Asp Cys Val Ser Phe Lys Ile His Val Leu
          65          70          75          80
Pro Met
          82

```

<210> 867  
 <211> 60  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 867
Ala Gly Met Ser Val Val Val Val Pro Pro Ile Gly Ser Ser Tyr Leu
 1          5          10          15
Gly Leu Ile Ser Gln Glu His Phe Pro Asn Glu Phe Thr Ser Gly Asp
          20          25          30
Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe Tyr Gly Ser Ser Tyr
          35          40          45
Val Ala Ala Ser Asp Ser Ser Arg Thr Pro Gly Leu
          50          55          60

```

<210> 868  
 <211> 78  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 868
Val Ala Ala Ala Leu Thr Leu Phe Pro Gln Gln Leu Ser Pro Pro Gly

```

1	5	10	15
Ala Trp Gly Leu Gly Leu Ser Ala Cys Phe Cys Cys Ala Glu Gly Phe			
	20	25	30
Ser Arg Leu Asn Gln Gln Val Leu Ser Ser Ser Leu Leu Leu Ser			
	35	40	45
Arg Thr Asn Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn Leu Lys Lys			
	50	55	60
Leu Thr Pro Arg Arg Asp Val Pro Thr Tyr Pro Lys Val Arg			
65	70	75	78

&lt;210&gt; 869

&lt;211&gt; 119

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 869															
Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile															
1	5	10	15												
Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr															
	20	25	30												
Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu															
	35	40	45												
Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln															
	50	55	60												
Ser Gly Thr Ser Gln Ala Ala His Val Ala Gly Ile Ala Ala Met															
	65	70	75												
Met Leu Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg															
	85	90	95												
Leu Ile His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro															
	100	105	110												
Glu Asp Gln Arg Val Leu Thr															
	115	119													

&lt;210&gt; 870

&lt;211&gt; 34

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 870															
Leu Glu Ile Lys Phe Leu Glu Gln Val Asp Gln Phe Tyr Asp Asp Asn															
1	5	10	15												
Phe Pro Met Glu Ile Arg His Leu Leu Ala Gln Trp Ile Glu Asn Gln															
	20	25	30												
Asp Trp															
34															

&lt;210&gt; 871

&lt;211&gt; 154

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



&lt;400&gt; 871

```

Glu Ala Gly Asp Ala Asp Glu Asp Glu Ala Asp Ala Asn Ser Ser Asp
 1           5           10           15
Cys Glu Pro Glu Gly Pro Val Glu Ala Glu Glu Pro Pro Gln Glu Asp
          20           25           30
Ser Ser Ser Gln Ser Asp Ser Val Glu Asp Arg Ser Glu Asp Glu Glu
      35           40           45
Asp Glu His Ser Glu Glu Glu Thr Ser Gly Ser Ser Ala Ser Glu
      50           55           60
Glu Ser Glu Ser Glu Glu Ser Glu Asp Ala Gln Ser Gln Ser Gln Ala
      65           70           75           80
Asp Glu Glu Glu Glu Asp Asp Asp Phe Gly Val Glu Tyr Leu Leu Ala
          85           90           95
Arg Asp Glu Glu Gln Ser Glu Ala Asp Ala Gly Ser Gly Pro Pro Thr
          100          105          110
Pro Gly Pro Thr Thr Leu Gly Pro Lys Lys Glu Ile Thr Asp Ile Ala
          115          120          125
Ala Ala Ala Glu Ser Leu Gln Pro Lys Gly Tyr Thr Leu Ala Thr Thr
          130          135          140
Gln Val Lys Thr Pro Ile Pro Leu Leu Leu
145           150           154

```

&lt;210&gt; 872

&lt;211&gt; 118

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 872

```

Leu Lys Asn Leu Arg Glu Leu Leu Leu Glu Asp Asn Gln Leu Pro Gln
 1           5           10           15
Ile Pro Ser Gly Leu Pro Glu Ser Leu Thr Glu Leu Ser Leu Ile Gln
          20           25           30
Thr Asn Ile Tyr Asn Ile Thr Lys Glu Gly Ile Ser Arg Leu Ile Asn
      35           40           45
Leu Lys Asn Leu Tyr Leu Ala Trp Asn Cys Tyr Phe Asn Lys Val Cys
      50           55           60
Glu Lys Thr Asn Ile Glu Asp Gly Val Phe Glu Thr Leu Thr Asn Leu
      65           70           75           80
Glu Leu Leu Ser Leu Ser Phe Asn Ser Leu Ser His Val Pro Pro Lys
          85           90           95
Leu Pro Ser Ser Leu Arg Lys Leu Phe Leu Ser Asn Thr Gln Ile Lys
          100          105          110
Tyr Ile Ser Glu Glu Asp
          115          118

```

&lt;210&gt; 873

&lt;211&gt; 42

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 873

```

Met Arg Ser Gln Ala Leu Gly Gln Ser Ala Pro Ser Leu Thr Ala Ser

```

```

      1             5             10             15
Leu Lys Glu Leu Ser Leu Pro Arg Arg Gly Ser Phe Pro Val Cys Pro
      20             25             30
Asn Ala Gly Arg Thr Ser Pro Leu Gly *
      35             40 41

```

<210> 874  
 <211> 70  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 874
Leu Leu Cys Val Cys Leu Pro Val Gly Ala Cys Pro Ser Leu Ser Leu
      1             5             10             15
Leu Thr Ala Pro Leu Asn Gln Leu Met Arg Cys Leu Arg Lys Tyr Gln
      20             25             30
Ser Arg Thr Pro Ser Pro Leu Leu His Ser Val Pro Ser Glu Ile Val
      35             40             45
Phe Asp Phe Glu Pro Gly Pro Val Phe Arg Gly Ser Trp Ala Leu Leu
      50             55             60
Ser Trp Ser Thr Arg Pro
      65             70

```

<210> 875  
 <211> 41  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 875
Gln Thr Pro Asp Lys Lys Gln Asn Asp Gln Arg Asn Arg Lys Arg Lys
      1             5             10             15
Ala Glu Pro Tyr Glu Thr Ser Gln Gly Ser Asn Asn Phe Val Ser Thr
      20             25             30
Lys Val Leu Asn Ser Asn Val Leu Arg
      35             40 41

```

<210> 876  
 <211> 139  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 876
Tyr Phe Ile Ile Lys Gly Met Val Glu Leu Val Pro Ala Ser Asp Thr
      1             5             10             15
Leu Arg Lys Ile Gln Val Glu Tyr Gly Val Thr Gly Ser Phe Lys Asp
      20             25             30
Lys Pro Leu Ala Glu Trp Leu Arg Lys Tyr Asn Pro Ser Glu Glu Glu
      35             40             45
Tyr Glu Lys Ala Ser Glu Asn Phe Ile Tyr Ser Cys Ala Gly Cys Cys

```

```

      50              55              60
Val Ala Thr Tyr Val Leu Gly Ile Cys Asp Arg His Asn Asp Asn Ile
 65              70              75              80
Met Leu Arg Ser Thr Gly His Met Phe His Ile Asp Phe Gly Lys Phe
      85              90              95
Leu Gly His Ala Gln Met Phe Gly Ser Phe Lys Arg Asp Arg Ala Pro
      100              105              110
Phe Val Leu Thr Ser Asp Met Ala Tyr Val Ile Asn Gly Gly Glu Lys
      115              120              125
Pro Thr Ile Arg Phe Gln Leu Phe Val Asp Leu
      130              135              139

```

&lt;210&gt; 877

&lt;211&gt; 350

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(350)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 877

```

Pro Ser Pro Leu Pro Ser Leu Ser Leu Pro Pro Pro Val Ala Pro Gly
 1              5              10              15
Gly Gln Glu Ser Pro Ser Pro His Thr Ala Glu Val Glu Ser Glu Ala
      20              25              30
Ser Pro Pro Ala Arg Pro Leu Pro Gly Glu Ala Arg Leu Ala Pro
      35              40              45
Ile Ser Glu Glu Gly Lys Pro Gln Leu Val Gly Arg Phe Gln Val Thr
      50              55              60
Ser Ser Lys Asn Arg Leu Ser Leu Phe Pro Cys Ser Gln His Pro Pro
      65              70              75              80
Leu Ser Leu Val Leu Gln Asn Leu Gln Pro Leu Ser Ser Leu Gln Arg
      85              90              95
Ala Gln Ile Gln Arg Thr Val Pro Gly Gly Pro Glu Thr Arg Glu
      100              105              110
Ala Leu Ala Glu Ser Asp Arg Ala Ala Glu Gly Leu Gly Ala Gly Val
      115              120              125
Glu Glu Glu Gly Asp Asp Gly Lys Glu Pro Gln Val Gly Gly Ser Pro
      130              135              140
Gln Pro Leu Ser His Pro Ser Pro Val Trp Met Asn Tyr Ser Tyr Ser
      145              150              155              160
Ser Leu Cys Leu Ser Ser Glu Glu Ser Glu Ser Ser Gly Glu Asp Glu
      165              170              175
Glu Phe Trp Ala Glu Leu Gln Ser Leu Arg Gln Lys His Leu Ser Glu
      180              185              190
Val Glu Thr Leu Gln Thr Leu Gln Lys Lys Glu Ile Glu Asp Leu Tyr
      195              200              205
Ser Arg Leu Gly Lys Gln Pro Pro Pro Gly Ile Val Ala Pro Ala Ala
      210              215              220
Met Leu Ser Ser Arg Gln Arg Arg Leu Ser Lys Gly Ser Phe Pro Thr
      225              230              235              240
Ser Arg Arg Asn Ser Leu Gln Arg Ser Glu Pro Pro Gly Pro Gly Glu
      245              250              255
Thr Ala Gly His Pro Ala Ser Ile Phe Ser Leu Arg Pro Leu Ser Val
      260              265              270
Asp Cys Phe Ser Pro Gly Pro Gly Gly Leu Pro Arg Gly Asn Arg Pro
      275              280              285

```

Pro Leu Pro Thr Ser Pro Phe Leu Thr Xaa Cys Ser Pro Ser Pro His  
 290 295 300  
 Thr Ala Glu Val Glu Ser Glu Ala Ser Pro Pro Ala Arg Pro Leu  
 305 310 315 320  
 Pro Gly Glu Ala Arg Leu Ala Pro Ile Ser Glu Glu Gly Lys Pro Gln  
 325 330 335  
 Leu Val Gly Arg Phe Pro Ser Asp Phe Ile Gln Gly Thr Gly  
 340 345 350

&lt;210&gt; 878

&lt;211&gt; 112

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

Arg Arg Phe Val Ser Gln Glu Thr Gly Asn Leu Tyr Ile Ala Lys Val  
 1 5 10 15  
 Glu Lys Ser Asp Val Gly Asn Tyr Thr Cys Val Val Thr Asn Thr Val  
 20 25 30  
 Thr Asn His Lys Val Leu Gly Pro Pro Thr Pro Leu Ile Leu Arg Asn  
 35 40 45  
 Asp Gly Val Met Gly Glu Tyr Glu Pro Lys Ile Glu Val Gln Phe Pro  
 50 55 60  
 Glu Thr Val Pro Thr Ala Lys Gly Ala Thr Val Lys Leu Glu Cys Phe  
 65 70 75 80  
 Ala Leu Gly Asn Pro Val Pro Thr Ile Ile Trp Arg Arg Ala Asp Gly  
 85 90 95  
 Lys Pro Ile Ala Arg Lys Ala Arg Arg His Lys Ser Arg Val Gly Lys  
 100 105 110 112

&lt;210&gt; 879

&lt;211&gt; 282

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 879

Met Leu Arg Thr Cys Tyr Val Leu Cys Ser Gln Ala Gly Pro Arg Ser  
 1 5 10 15  
 Arg Gly Trp Gln Ser Leu Ser Phe Asp Gly Gly Ala Phe His Leu Lys  
 20 25 30  
 Gly Thr Gly Glu Leu Thr Arg Ala Leu Leu Val Leu Arg Leu Cys Ala  
 35 40 45  
 Trp Pro Pro Leu Val Thr His Gly Leu Leu Leu Gln Ala Trp Ser Arg  
 50 55 60  
 Arg Leu Leu Gly Ser Arg Leu Ser Gly Ala Phe Leu Arg Ala Ser Val  
 65 70 75 80  
 Tyr Gly Gln Phe Val Ala Gly Glu Thr Ala Glu Glu Val Lys Gly Cys  
 85 90 95  
 Val Gln Gln Leu Arg Thr Leu Ser Leu Arg Pro Leu Leu Ala Val Pro  
 100 105 110  
 Thr Glu Glu Glu Pro Asp Ser Ala Lys Ser Gly Glu Ala Trp Tyr  
 115 120 125

Glu Gly Asn Leu Gly Ala Met Leu Arg Cys Val Asp Leu Ser Arg Gly .  
     130                    135                    140  
 Leu Leu Glu Pro Pro Ser Leu Ala Glu Ala Ser Leu Met Gln Leu Lys  
 145                    150                    155                    160  
 Val Thr Ala Leu Thr Ser Thr Arg Leu Cys Lys Glu Leu Ala Ser Trp  
                     165                    170                    175  
 Val Arg Arg Pro Gly Ala Ser Leu Glu Leu Ser Pro Glu Arg Leu Ala  
                     180                    185                    190  
 Glu Ala Met Asp Ser Gly Gln Asn Leu Gln Val Ser Cys Leu Asn Ala  
                     195                    200                    205  
 Glu Gln Asn Gln His Leu Arg Ala Ser Leu Ser Arg Leu His Arg Val  
                     210                    215                    220  
 Ala Gln Tyr Ala Arg Ala Gln His Val Arg Leu Leu Val Asp Ala Glu  
 225                    230                    235                    240  
 Tyr Thr Ser Leu Asn Pro Ala Leu Ser Leu Leu Val Ala Ala Leu Ala  
                     245                    250                    255  
 Val Arg Trp Asn Ser Pro Gly Glu Gly Gly Pro Trp Val Trp Asn Thr  
                     260                    265                    270  
 Tyr Gln Ala Cys Leu Lys Asp Thr Phe \*  
                     275                    280 281

<210> 880  
 <211> 29  
 <212> Amino acid  
 <213> Homo sapiens

<400> 880  
 Pro His His Arg Ile Ala Gly Asp Thr Ala Ile Asp Lys Asn Ile His  
   1                    5                    10                    15  
 Gln Ser Val Ser Glu Gln Ile Lys Lys Asn Phe Ala Lys  
                     20                    25                    29

<210> 881  
 <211> 45  
 <212> Amino acid  
 <213> Homo sapiens

<400> 881  
 Gln Met Thr Asn Pro Phe Phe Leu Cys Phe Thr Thr Met Ile Ser Asn  
   1                    5                    10                    15  
 Cys Asn Phe Phe Lys Gly Pro Pro Gly Pro Pro Gly Glu Lys Gly Asp  
                     20                    25                    30  
 Arg Gly Pro Thr Gly Glu Ser Gly Pro Arg Gly Phe Pro  
                     35                    40                    45

<210> 882  
 <211> 54  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 882

```

Asn Gly Ile Ile Ala Ser Phe Phe Leu Arg Thr Phe Ile Phe Cys Phe
 1           5           10           15
Ile His Ile Gln Gly Cys Gln Ala Gly Gln Thr Ile Lys Val Gln Val
           20           25           30
Ser Phe Asp Leu Leu Ser Leu Met Phe Thr Phe Val Ser Pro Cys Thr
           35           40           45
Asn Asp Leu Ile Ile His
 50           54

```

&lt;210&gt; 883

&lt;211&gt; 479

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

```

Lys Leu Ser Val Asn His Arg Arg Thr His Leu Thr Lys Leu Met His
 1           5           10           15
Thr Val Glu Gln Ala Thr Leu Arg Ile Ser Gln Ser Phe Gln Lys Thr
           20           25           30
Thr Glu Phe Asp Thr Asn Ser Thr Asp Ile Ala Leu Lys Val Phe Phe
           35           40           45
Phe Asp Ser Tyr Asn Met Lys His Ile His Pro His Met Asn Met Asp
           50           55           60
Gly Asp Tyr Ile Asn Ile Phe Pro Lys Arg Lys Ala Ala Tyr Asp Ser
           65           70           75           80
Asn Gly Asn Val Ala Val Ala Phe Leu Tyr Tyr Lys Ser Ile Gly Pro
           85           90           95
Leu Leu Ser Ser Ser Asp Asn Phe Leu Leu Lys Pro Gln Asn Tyr Asp
           100           105           110
Asn Ser Glu Glu Glu Glu Arg Val Ile Ser Ser Val Ile Ser Val Ser
           115           120           125
Met Ser Ser Asn Pro Pro Thr Leu Tyr Glu Leu Glu Lys Ile Thr Phe
           130           135           140
Thr Leu Ser His Arg Lys Val Thr Asp Arg Tyr Arg Ser Leu Cys Ala
           145           150           155           160
Phe Trp Asn Tyr Ser Pro Asp Thr Met Asn Gly Ser Trp Ser Ser Glu
           165           170           175
Gly Cys Glu Leu Thr Tyr Ser Asn Glu Thr His Thr Ser Cys Arg Cys
           180           185           190
Asn His Leu Thr His Phe Ala Ile Leu Met Ser Ser Gly Pro Ser Ile
           195           200           205
Gly Ile Lys Asp Tyr Asn Ile Leu Thr Arg Ile Thr Gln Leu Gly Ile
           210           215           220
Ile Ile Ser Leu Ile Cys Leu Ala Ile Cys Ile Phe Thr Phe Trp Phe
           225           230           235           240
Phe Ser Glu Ile Gln Ser Thr Arg Thr Thr Ile His Lys Asn Leu Cys
           245           250           255
Cys Ser Leu Phe Leu Ala Glu Leu Val Phe Leu Val Gly Ile Asn Thr
           260           265           270
Asn Thr Asn Lys Leu Phe Cys Ser Ile Ile Ala Gly Leu Leu His Tyr
           275           280           285
Phe Phe Leu Ala Ala Phe Ala Trp Met Cys Ile Glu Gly Ile His Leu
           290           295           300
Tyr Leu Ile Val Val Gly Val Ile Tyr Asn Lys Gly Phe Leu His Lys
           305           310           315           320
Asn Phe Tyr Ile Phe Gly Tyr Leu Ser Pro Ala Val Val Val Gly Phe
           325           330           335

```

Ser Ala Ala Leu Gly Tyr Arg Tyr Tyr Gly Thr Thr Lys Val Cys Trp  
 340 345 350  
 Leu Ser Thr Glu Asn Asn Phe Ile Trp Ser Phe Ile Gly Pro Ala Cys  
 355 360 365  
 Leu Ile Ile Leu Val Asn Leu Leu Ala Phe Gly Val Ile Ile Tyr Lys  
 370 375 380  
 Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser Cys Phe Glu  
 385 390 395 400  
 Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu  
 405 410 415  
 Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val  
 420 425 430  
 Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe  
 435 440 445  
 Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr  
 450 455 460  
 Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg  
 465 470 475 479

<210> 884  
 <211> 143  
 <212>Amino acid  
 <213> Homo sapiens

<400> 884  
 Gly Thr Arg Glu Ala Ala Pro Ser Arg Phe Met Phe Leu Leu Phe Leu  
 1 5 10 15  
 Leu Thr Cys Glu Leu Ala Ala Glu Val Ala Ala Glu Val Glu Lys Ser  
 20 25 30  
 Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro Thr Trp Leu Thr Asp Val  
 35 40 45  
 Pro Ala Ala Met Glu Phe Ile Ala Ala Thr Glu Val Ala Val Ile Gly  
 50 55 60  
 Phe Phe Gln Asp Leu Glu Ile Pro Ala Val Pro Ile Leu His Ser Met  
 65 70 75 80  
 Val Gln Lys Phe Pro Gly Val Ser Phe Gly Ile Ser Thr Asp Ser Glu  
 85 90 95  
 Val Leu Thr His Tyr Asn Ile Thr Gly Asn Thr Ile Cys Leu Phe Arg  
 100 105 110  
 Leu Val Asp Asn Glu Gln Leu Asn Leu Glu Asp Glu Asp Ile Glu Ser  
 115 120 125  
 Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile Glu Ile Asn Ser Leu  
 130 135 140 143

<210> 885  
 <211> 52  
 <212>Amino acid  
 <213> Homo sapiens

<400> 885  
 Asp Glu Thr Ser Gly Leu Ile Val Arg Glu Val Ser Ile Glu Ile Ser  
 1 5 10 15  
 Arg Gln Gln Val Glu Glu Leu Phe Gly Pro Glu Asp Tyr Trp Cys Gln  
 20 25 30

Cys Val Ala Trp Ser Ser Ala Gly Thr Thr Lys Ser Arg Lys Ala Tyr  
           35                    40                    45  
 Val Arg Ile Ala  
       50      52

<210> 886  
 <211> 40  
 <212> Amino acid  
 <213> Homo sapiens

<400> 886  
 Gly Thr Arg Ser Ile His Val Lys Leu Asp Val Gly Lys Leu His Thr  
   1                    5                    10                    15  
 Gln Pro Lys Leu Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly  
           20                    25                    30  
 Lys Val Glu Gly Leu Pro Gly Ile  
       35                    40

<210> 887  
 <211> 177  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(177)  
 <223> X = any amino acid or stop code

<400> 887  
 Xaa Cys Gly Glu Asp Gly Ser Phe Thr Gln Val Gln Cys His Thr Tyr  
   1                    5                    10                    15  
 Thr Gly Tyr Cys Trp Cys Val Thr Pro Asp Gly Lys Pro Ile Ser Gly  
           20                    25                    30  
 Ser Ser Val Gln Asn Lys Thr Pro Val Cys Ser Gly Ser Val Thr Asp  
       35                    40                    45  
 Lys Pro Leu Ser Gln Gly Asn Ser Gly Arg Lys Asp Asp Gly Ser Lys  
       50                    55                    60  
 Pro Thr Pro Thr Met Glu Thr Gln Pro Val Phe Asp Gly Asp Glu Ile  
       65                    70                    75                    80  
 Thr Ala Pro Thr Leu Trp Ile Lys His Leu Val Ile Lys Asp Ser Lys  
           85                    90                    95  
 Leu Asn Asn Thr Asn Ile Arg Asn Ser Glu Lys Val Tyr Ser Cys Asp  
       100                    105                    110  
 Gln Glu Arg Gln Ser Ala Leu Glu Glu Ala Gln Gln Asn Pro Arg Glu  
       115                    120                    125  
 Gly Ile Val Ile Pro Glu Cys Ala Pro Gly Gly Leu Tyr Lys Pro Val  
       130                    135                    140  
 Gln Cys His Gln Ser Thr Gly Tyr Cys Trp Cys Val Leu Val Asp Thr  
       145                    150                    155                    160  
 Gly Arg Pro Leu Pro Gly Thr Ser Thr Arg Tyr Val Met Pro Ser Xaa  
           165                    170                    175 176

\*



<210> 888  
 <211> 48  
 <212>Amino acid  
 <213> Homo sapiens

<400> 888  
 Val Leu Gln Leu Ile Lys Ser Gln Lys Phe Leu Asn Lys Leu Val Ile  
   1                  5                  10                  15  
 Leu Val Glu Thr Glu Lys Glu Lys Ile Leu Arg Lys Glu Tyr Val Phe  
                   20                  25                  30  
 Ala Asp Ser Lys Val Ser Asp Ser Lys Leu Leu Lys Trp Ala Val Arg  
           35                  40                  45                  48

<210> 889  
 <211> 316  
 <212>Amino acid  
 <213> Homo sapiens

<400> 889  
 Arg Arg Leu Ser Leu Leu Asp Leu Gln Leu Gly Pro Leu Gly Arg Asp  
   1                  5                  10                  15  
 Pro Pro Gln Glu Cys Ser Thr Phe Ser Pro Thr Asp Ser Gly Glu Glu  
                   20                  25                  30  
 Pro Gly Gln Leu Ser Pro Gly Val Gln Phe Gln Arg Arg Gln Asn Gln  
           35                  40                  45  
 Arg Arg Phe Ser Met Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met  
   50                  55                  60  
 Asp Ile Arg Leu Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser  
   65                  70                  75                  80  
 Pro Asp Leu Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu  
                   85                  90                  95  
 Ser Asp Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys  
           100                  105                  110  
 Leu Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu  
   115                  120                  125  
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu Glu  
   130                  135                  140  
 Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys Asn Leu  
 145                  150                  155                  160  
 Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His Thr Asp Arg  
                   165                  170                  175  
 Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp Leu Lys Gln Tyr  
           180                  185                  190  
 Leu Asp His Cys Gly Asn Leu Met Ser Met His Asn Val Lys Val Arg  
   195                  200                  205  
 Pro Arg Gly Gln Gly Pro Pro Ile Leu Ala Ala Thr Cys Pro Glu Ala  
   210                  215                  220  
 Gln Cys Gly Asp Pro Leu Ser Pro Pro Gly Ile Arg Leu Leu Arg Trp  
 225                  230                  235                  240  
 Leu Lys Pro Ser His Val Gly Lys Arg Glu Arg Ala Met Pro Ser Thr  
                   245                  250                  255  
 Ser Pro Gly Thr Gly Leu Ser Ala Leu Pro Gln Glu Gln Thr His Thr

```

                260                265                270
Val Cys His Cys Leu Ala Val Gly Ile Lys Pro Thr Leu Asn Ser Glu
                275                280                285
His Gln Phe Pro Ser Leu Ser Asn Gly Ser Val Ser Tyr Leu Pro Lys
                290                295                300
Cys Arg Glu Ala Ser Gly Glu Ala Arg Gly Tyr Glu
305                310                315 316

```

```

<210> 890
<211> 34
<212>Amino acid
<213> Homo sapiens

```

```

<400> 890
His Glu Arg His Glu Pro Ser Pro Thr Ala Leu Ala Phe Gly Asp His
 1                5                10                15
Pro Ile Val Gln Pro Lys Gln Leu Ser Phe Lys Ile Ile Gln Val Asn
                20                25                30
Asp Asn
34

```

```

<210> 891
<211> 68
<212>Amino acid
<213> Homo sapiens

```

```

<400> 891
Ala Arg Gly Pro Ser Leu Leu Ser Glu Phe His Pro Gly Ser Asp Arg
 1                5                10                15
Pro Gln Glu Arg Arg Thr Ser Tyr Glu Pro Ile His Pro Gly Pro Ser
                20                25                30
Pro Val Asp His Asp Ser Leu Glu Ser Lys Arg Pro Arg Leu Glu Gln
                35                40                45
Ala Ser Asp Ser His Tyr Gln Gly His Ile Thr Gly Glu Ser Leu Pro
 50                55                60
Gly Arg Val His
65                68

```

```

<210> 892
<211> 38
<212>Amino acid
<213> Homo sapiens

```

```

<400> 892
Gly Thr Arg Lys Glu Glu Phe Ser Ala Glu Glu Asn Phe Leu Ile Leu
 1                5                10                15
Thr Glu Met Ala Thr Asn His Val Gln Val Leu Val Glu Phe Thr Lys
                20                25                30
Lys Leu Pro Gly Ile Phe

```

35

38

<210> 893  
 <211> 195  
 <212>Amino acid  
 <213> Homo sapiens

<400> 893  
 His Thr His Lys Leu Val Ala Pro Arg Pro Gly Leu Pro Pro Thr Ser  
 1 5 10 15  
 Gln Trp Pro Arg Asp Ala Gly Arg Gln Ala Ser Gly Gly Leu Pro Ser  
 20 25 30  
 Leu Ser Thr Gly Pro Pro Lys Gly Pro Arg Asp Gly Leu Ala Arg Gly  
 35 40 45  
 His Pro Ala Glu Trp Leu Ala Gly Ser Pro Gly Asn Asn Ser Pro Thr  
 50 55 60  
 Gln Gly Ser Leu Pro Pro Gln Leu Asp Leu Tyr Ala Gly Ala Leu Phe  
 65 70 75 80  
 Val His Ile Cys Leu Gly Trp Asn Phe Tyr Leu Ser Thr Ile Leu Thr  
 85 90 95  
 Leu Gly Ile Thr Ala Leu Tyr Thr Ile Ala Gly Met Val Pro Ala Ala  
 100 105 110  
 Gly Arg Ser Thr Gln Gly Thr Cys Lys Gly Val Arg Arg Pro Pro Pro  
 115 120 125  
 Pro Thr Gly Pro Arg Glu Gln Pro Arg Lys Trp Pro Gln Gln Glu Pro  
 130 135 140  
 Gln Lys Phe Leu Pro Val Ser Leu Leu Pro Gly Ala Arg Ala Pro Ser  
 145 150 155 160  
 Ser Asn Leu Ala Ser Thr Gly Arg Gly Pro Gly Cys Cys Asn Leu His  
 165 170 175  
 Gly Arg Pro Ala Asp Ala His His Gly Gly Gly Gly Cys His Pro Asp  
 180 185 190  
 Asn Gln Arg  
 195

<210> 894  
 <211> 87  
 <212>Amino acid  
 <213> Homo sapiens

<400> 894  
 Met Val Asn His Ser Leu Gln Glu Thr Ser Glu Gln Asn Val Ile Leu  
 1 5 10 15  
 Gln His Thr Leu Gln Gln Gln Gln Met Leu Gln Gln Glu Thr Ile  
 20 25 30  
 Arg Asn Gly Glu Leu Glu Asp Thr Gln Thr Lys Leu Glu Lys Gln Val  
 35 40 45  
 Ser Lys Leu Glu Gln Glu Leu Gln Lys Gln Arg Glu Ser Ser Ala Glu  
 50 55 60  
 Lys Leu Arg Lys Met Glu Glu Lys Cys Glu Ser Ala Ala His Glu Ala  
 65 70 75 80  
 Asp Leu Lys Arg Gln Lys \*  
 85 86

<210> 895  
 <211> 49  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(49)  
 <223> X = any amino acid or stop code

<400> 895  
 Val Cys Pro Lys Trp Cys Arg Phe Leu Thr Met Leu Gly His Cys Cys  
 1 5 10 15  
 Tyr Phe Trp His Val Trp Pro Ala Ser Xaa Ala Leu Ser Ala Gly Pro  
 20 25 30  
 Thr Pro Thr Ser Arg Ser Phe Ser Pro Ser Pro Leu Arg Ser Ile Ser  
 35 40 45  
 Thr  
 49

<210> 896  
 <211> 128  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(128)  
 <223> X = any amino acid or stop code

<400> 896  
 Met Arg Gly Pro Pro Val Leu Leu Leu Gln Ala Ala Pro Met Glu Cys  
 1 5 10 15  
 Pro Val Pro Gln Gly Ile Pro Ala Gly Ser Ser Pro Glu Pro Ala Pro  
 20 25 30  
 Asp Pro Pro Gly Pro His Phe Leu Arg Gln Glu Arg Ser Phe Glu Cys  
 35 40 45  
 Arg Met Cys Gly Lys Ala Phe Lys Arg Ser Ser Thr Leu Ser Thr His  
 50 55 60  
 Leu Leu Ile His Ser Asp Thr Arg Pro Tyr Pro Cys Gln Phe Cys Gly  
 65 70 75 80  
 Lys Arg Phe His Gln Lys Ser Asp Met Lys Lys His Thr Tyr Ile His  
 85 90 95  
 Thr Gly Glu Lys Pro His Lys Cys Gln Thr Gln Arg Glu Pro Thr Met  
 100 105 110  
 Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Xaa \*  
 115 120 125 127

<210> 897  
 <211> 57  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 897

```

His Glu Gln Leu Thr Asn Asn Thr Ala Thr Ala Pro Ser Ala Thr Pro
 1          5          10          15
Val Phe Gly Gln Val Ala Ala Ser Thr Ala Pro Ser Leu Phe Gly Gln
          20          25          30
Gln Thr Gly Ile Thr Ala Ser Thr Ala Val Ala Thr Pro Gln Val Ile
          35          40          45
Ser Ser Arg Phe Ile Asn Leu Asp Phe
 50          55          57

```

&lt;210&gt; 898

&lt;211&gt; 163

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(163)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 898

```

Val Ser Val Phe Lys Asn Cys Pro Met Tyr Xaa Ile Cys Ile Phe Leu
 1          5          10          15
Thr Lys Met Phe Cys Val Leu Ile Ile Xaa Asn Lys Phe Xaa Val His
          20          25          30
Lys Lys Pro Leu Gln Glu Val Glu Ile Ala Ala Ile Thr His Gly Ala
          35          40          45
Leu Gln Gly Leu Ala Tyr Leu His Ser His Thr Met Ile His Arg Asp
          50          55          60
Ile Lys Ala Gly Asn Ile Leu Leu Thr Glu Pro Gly Gln Val Lys Leu
          65          70          75          80
Ala Asp Phe Gly Ser Ala Ser Met Ala Ser Pro Ala Asn Ser Phe Val
          85          90          95
Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu
          100          105          110
Gly Gln Tyr Asp Gly Lys Val Asp Val Trp Ser Leu Gly Ile Thr Cys
          115          120          125
Ile Glu Leu Ala Glu Arg Lys Pro Pro Leu Phe Asn Met Asn Ala Met
          130          135          140
Ser Ala Leu Tyr His Ile Ala Gln Asn Glu Ser Pro Thr Leu Gln Ser
          145          150          155          160
Asn Glu Trp
          163

```

&lt;210&gt; 899

&lt;211&gt; 352

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

```

Arg His Ala Arg Pro Gly Gly Gly Gly His Ser Asn Gln Arg Lys Met
 1          5          10          15
Ser Leu Glu Gln Glu Glu Thr Gln Pro Gly Arg Leu Leu Gly Arg
          20          25          30
Arg Asp Ala Val Pro Ala Phe Ile Glu Pro Asn Val Arg Phe Trp Ile
          35          40          45
Thr Glu Arg Gln Ser Phe Ile Arg Arg Phe Leu Gln Trp Thr Glu Leu
          50          55          60
Leu Asp Pro Thr Asn Val Phe Ile Ser Val Glu Ser Ile Glu Asn Ser
          65          70          75          80
Arg Gln Leu Leu Cys Thr Asn Glu Asp Val Ser Ser Pro Ala Ser Ala
          85          90          95
Asp Gln Arg Ile Gln Glu Ala Trp Lys Arg Ser Leu Ala Thr Val His
          100          105          110
Pro Asp Ser Ser Asn Leu Ile Pro Lys Leu Phe Arg Pro Ala Ala Phe
          115          120          125
Leu Pro Phe Met Ala Pro Thr Val Phe Leu Ser Met Thr Pro Leu Lys
          130          135          140
Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met
          145          150          155          160
Ala Ala Phe Asn Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro
          165          170          175
Leu Glu Arg Ser Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe
          180          185          190
Leu Gly Val Ile Pro Gln Phe Val Gln Met Lys Tyr Gly Leu Thr Gly
          195          200          205
Pro Trp Ile Lys Arg Leu Leu Pro Val Ile Phe Leu Val Gln Ala Ser
          210          215          220
Gly Met Asn Val Tyr Met Ser Arg Ser Leu Glu Ser Ile Lys Gly Ile
          225          230          235          240
Ala Val Met Asp Lys Glu Gly Asn Val Leu Gly His Ser Arg Ile Ala
          245          250          255
Gly Thr Lys Ala Val Arg Glu Thr Leu Ala Ser Arg Ile Val Leu Phe
          260          265          270
Gly Thr Ser Ala Leu Ile Pro Glu Val Phe Thr Tyr Phe Phe Lys Arg
          275          280          285
Thr Gln Tyr Phe Arg Lys Asn Pro Gly Ser Leu Trp Ile Leu Lys Leu
          290          295          300
Ser Cys Thr Val Leu Ala Met Gly Leu Met Val Pro Phe Ser Phe Ser
          305          310          315          320
Ile Phe Pro Gln Ile Gly Gln Ile Gln Tyr Cys Ser Leu Glu Glu Lys
          325          330          335
Ile Gln Ser Pro Thr Glu Glu Thr Glu Ile Phe Tyr His Arg Gly Val
          340          345          350          352

```

&lt;210&gt; 900

&lt;211&gt; 186

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 900

```

His Ala Ser Gly Arg Leu Glu Val Phe Tyr Asn Gly Thr Trp Gly Ser
 1          5          10          15
Val Gly Arg Arg Asn Ile Thr Thr Ala Ile Ala Gly Ile Val Cys Arg
          20          25          30
Gln Leu Gly Cys Gly Glu Asn Gly Val Val Ser Leu Ala Pro Leu Ser
          35          40          45

```

Lys Thr Gly Ser Gly Phe Met Trp Val Asp Asp Ile Gln Cys Pro Lys  
     50                    55                    60  
 Thr His Ile Ser Ile Trp Gln Cys Leu Ser Ala Pro Trp Glu Arg Arg  
     65                    70                    75                    80  
 Ile Ser Ser Pro Ala Glu Glu Thr Trp Ile Thr Cys Glu Asp Arg Ile  
                     85                    90                    95  
 Arg Val Arg Gly Gly Asp Thr Glu Cys Ser Gly Arg Val Glu Ile Trp  
                     100                    105                    110  
 His Ala Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Leu Ala  
                     115                    120                    125  
 Glu Ala Glu Val Val Cys Gln Gln Leu Gly Cys Gly Ser Ala Leu Ala  
     130                    135                    140  
 Ala Leu Arg Asp Ala Ser Phe Gly Gln Gly Thr Gly Thr Ile Trp Leu  
     145                    150                    155                    160  
 Asp Asp Met Arg Cys Lys Gly Asn Glu Ser Phe Leu Trp Asp Cys His  
                     165                    170                    175  
 Ala Lys Pro Trp Gly Gln Ser Asp Cys Gly  
                     180                    185 186

<210> 901  
 <211> 365  
 <212> Amino acid  
 <213> Homo sapiens

<400> 901  
 Leu Gly Asp Phe Pro Gln Pro Gln Arg Gln Arg Arg Pro Gly Ala Ser  
     1                    5                    10                    15  
 Asp Leu Pro Pro His Leu Ala Gly Ala Arg Gln Trp Glu Val Arg Phe  
                     20                    25                    30  
 Phe Arg His Leu Pro Ala Arg Thr Leu Pro Pro Ser Leu Arg Met Pro  
                     35                    40                    45  
 Glu Gly Pro Glu Leu His Leu Ala Ser Gln Phe Val Asn Glu Ala Cys  
     50                    55                    60  
 Arg Ala Leu Val Phe Gly Gly Cys Val Glu Lys Ser Ser Val Ser Arg  
     65                    70                    75                    80  
 Asn Pro Glu Val Pro Phe Glu Ser Ser Ala Tyr Arg Ile Ser Ala Ser  
                     85                    90                    95  
 Ala Arg Gly Lys Glu Leu Arg Leu Ile Leu Ser Pro Leu Pro Gly Ala  
                     100                    105                    110  
 Gln Pro Gln Gln Glu Pro Leu Ala Leu Val Phe Arg Phe Gly Met Ser  
                     115                    120                    125  
 Gly Ser Phe Gln Leu Val Pro Arg Glu Glu Leu Pro Arg His Ala His  
     130                    135                    140  
 Leu Arg Phe Tyr Thr Ala Pro Pro Gly Pro Arg Leu Ala Leu Cys Phe  
     145                    150                    155                    160  
 Val Asp Ile Arg Arg Phe Gly Arg Trp Asp Leu Gly Gly Lys Trp Gln  
                     165                    170                    175  
 Pro Gly Arg Gly Pro Cys Val Leu Gln Glu Tyr Gln Gln Phe Arg Glu  
                     180                    185                    190  
 Asn Val Leu Arg Asn Leu Ala Asp Lys Ala Phe Asp Arg Pro Ile Cys  
                     195                    200                    205  
 Glu Ala Leu Leu Asp Gln Arg Phe Phe Asn Gly Ile Gly Asn Tyr Leu  
     210                    215                    220  
 Arg Ala Glu Ile Leu Tyr Arg Leu Lys Ile Pro Pro Phe Glu Lys Ala  
     225                    230                    235                    240  
 Arg Ser Val Leu Glu Ala Leu Gln Gln His Arg Pro Ser Pro Glu Leu  
                     245                    250                    255  
 Thr Leu Ser Gln Lys Ile Arg Thr Lys Leu Gln Asn Pro Asp Leu Leu  
                     260                    265                    270

Glu Leu Cys His Ser Val Pro Lys Glu Val Val Gln Leu Gly Gly Arg  
           275                          280                          285  
 Gly Tyr Gly Ser Glu Ser Gly Glu Glu Asp Phe Ala Ala Phe Arg Ala  
           290                          295                          300  
 Trp Leu Arg Cys Tyr Gly Met Pro Gly Met Ser Ser Leu Gln Asp Arg  
 305                          310                          315                          320  
 His Gly Arg Thr Ile Trp Phe Gln Gly Asp Pro Gly Pro Leu Ala Pro  
                           325                          330                          335  
 Lys Gly Arg Lys Ser Arg Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser  
                           340                          345                          350  
 Pro Glu Asp Arg Val Glu Asp Ala Leu Pro Pro Ser Lys  
           355                          360                          365

<210> 902  
 <211> 110  
 <212> Amino acid  
 <213> Homo sapiens

<400> 902  
 Leu Thr Trp Ser Ala Cys Tyr Trp Arg Asp Ile Leu Arg Ile Gln Leu  
 1                          5                          10                          15  
 Trp Ile Ala Ala Asp Ile Leu Leu Arg Met Leu Glu Lys Ala Leu Leu  
           20                          25                          30  
 Tyr Ser Glu His Gln Asn Ile Ser Asn Thr Gly Leu Ser Ser Gln Gly  
           35                          40                          45  
 Leu Leu Ile Phe Ala Glu Leu Ile Pro Ala Ile Lys Arg Thr Leu Ala  
           50                          55                          60  
 Arg Leu Leu Val Ile Ile Ala Ser Leu Asp Tyr Gly Ile Glu Lys Pro  
           65                          70                          75                          80  
 His Leu Gly Thr Gly Met His Arg Val Ile Gly Leu Met Leu Leu Tyr  
                           85                          90                          95  
 Leu Ile Phe Ala Asn Ala Glu Ser Val Ile Arg Val Ile Gly  
           100                          105                          110

<210> 903  
 <211> 44  
 <212> Amino acid  
 <213> Homo sapiens

<400> 903  
 Phe Phe Phe Glu Met Glu Ser Arg Ser Ala Ala Gln Ala Gly Val Gln  
 1                          5                          10                          15  
 Trp Cys Asn Leu Gly Ser Leu Gln Ala Leu Pro Pro Arg Phe Thr Pro  
           20                          25                          30  
 Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr  
           35                          40                          44

<210> 904  
 <211> 190  
 <212> Amino acid  
 <213> Homo sapiens



&lt;400&gt; 904

```

Tyr Glu Cys Glu Glu Leu Ala Lys Lys Leu Glu Asn Ser Gln Arg Asp
 1           5           10           15
Gly Ile Ser Arg Asn Lys Leu Ala Leu Ala Glu Leu Tyr Glu Asp Glu
           20           25           30
Val Lys Cys Lys Ser Ser Lys Ser Asn Arg Pro Lys Ala Thr Val Phe
           35           40           45
Lys Ser Pro Arg Thr Pro Pro Gln Arg Phe Tyr Ser Ser Glu His Glu
           50           55           60
Tyr Ser Gly Leu Asn Ile Val Arg Pro Ser Thr Gly Lys Ile Val Asn
           65           70           75           80
Glu Leu Phe Lys Glu Ala Arg Glu His Gly Ala Val Pro Leu Asn Glu
           85           90           95
Ala Thr Arg Ala Ser Gly Asp Asp Lys Ser Lys Ser Phe Thr Gly Gly
           100          105          110
Gly Tyr Arg Leu Gly Ser Ser Phe Cys Lys Arg Ser Glu Tyr Ile Tyr
           115          120          125
Gly Glu Asn Gln Leu Gln Asp Val Gln Ile Leu Leu Lys Leu Trp Ser
           130          135          140
Asn Gly Phe Ser Leu Asp Asp Gly Glu Leu Arg Pro Tyr Asn Glu Pro
145           150           155           160
Thr Asn Ala Gln Phe Leu Glu Ser Val Lys Arg Gly Val Thr Leu Ile
           165          170          175
Ala Cys Met Pro Glu Ile Gln Gln Leu Met Leu Glu Ile Phe
           180          185          190

```

&lt;210&gt; 905

&lt;211&gt; 414

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 905

```

Trp Pro Cys Gly Ala Ala Pro Gly Leu Thr His Ala Ser Glu Arg Met
 1           5           10           15
Phe Thr Leu Thr Thr Met Ile Gln Ala Leu Ala Pro Val Met Gly Trp
           20           25           30
Asp Arg Lys Pro Leu Lys Met Phe Ser Ser Glu Glu Met Arg Gly His
           35           40           45
Leu His His His His Lys Cys Leu Thr Lys Ile Leu Lys Val Glu Gly
           50           55           60
Gln Val Pro Asp Leu Pro Ser Cys Leu Pro Leu Thr Asp Asn Thr Arg
           65           70           75           80
Met Leu Ala Ser Ile Leu Ile Asn Met Leu Tyr Asp Asp Leu Arg Cys
           85           90           95
Asp Pro Glu Arg Asp His Phe Arg Lys Ile Cys Glu Glu Tyr Ile Thr
           100          105          110
Gly Lys Phe Asp Pro Gln Asp Met Asp Lys Asn Leu Asn Ala Ile Gln
           115          120          125
Thr Val Ser Gly Ile Leu Gln Gly Pro Phe Asp Leu Gly Asn Gln Leu
           130          135          140
Leu Gly Leu Lys Gly Val Met Glu Met Met Val Ala Leu Cys Gly Ser
145           150           155           160
Glu Arg Glu Thr Asp Gln Leu Val Ala Val Glu Ala Leu Ile His Ala
           165          170          175
Ser Thr Lys Leu Ser Arg Ala Thr Phe Ile Ile Thr Asn Gly Val Ser
           180          185          190

```

```

Leu Leu Lys Gln Ile Tyr Lys Thr Thr Lys Asn Glu Lys Ile Lys Ile
    195                200                205
Arg Thr Leu Val Gly Leu Cys Lys Leu Gly Ser Ala Gly Gly Thr Asp
    210                215                220
Tyr Gly Leu Arg Gln Phe Ala Glu Gly Ser Thr Glu Lys Leu Ala Lys
    225                230                235                240
Gln Cys Arg Lys Trp Leu Cys Asn Met Ser Ile Asp Thr Arg Thr Arg
    245                250                255
Arg Trp Ala Val Glu Gly Leu Ala Tyr Leu Thr Leu Asp Ala Asp Val
    260                265                270
Lys Asp Asp Phe Val Gln Asp Val Pro Ala Leu Gln Ala Met Phe Glu
    275                280                285
Leu Ala Lys Thr Ser Asp Lys Thr Ile Leu Tyr Ser Val Ala Thr Thr
    290                295                300
Leu Val Asn Cys Thr Asn Ser Tyr Asp Val Lys Glu Val Ile Pro Glu
    305                310                315                320
Leu Val Gln Leu Ala Lys Phe Ser Lys Gln His Val Pro Glu Glu His
    325                330                335
Pro Lys Asp Lys Lys Asp Phe Ile Asp Met Arg Val Lys Arg Leu Leu
    340                345                350
Lys Ala Gly Val Ile Ser Ala Leu Ala Cys Met Val Lys Ala Asp Ser
    355                360                365
Ala Ile Leu Thr Asp Gln Thr Lys Glu Leu Leu Ala Arg Val Phe Leu
    370                375                380
Ala Leu Cys Asp Asn Pro Lys Asp Arg Gly Thr Ile Val Ala Gln Gly
    385                390                395                400
Gly Gly Lys Ala Leu Ile Pro Leu Ala Leu Glu Gly Thr Asp
    405                410                414

```

<210> 906  
 <211> 296  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 906
Val Asp Ser Val Gly Gly Gly Ser Glu Ser Arg Ser Leu Asp Ser Pro
    1          5          10          15
Thr Ser Ser Pro Gly Ala Gly Thr Arg Gln Leu Val Lys Ala Ser Ser
    20          25          30
Thr Gly Thr Glu Ser Ser Asp Asp Phe Glu Glu Arg Asp Pro Asp Leu
    35          40          45
Gly Asp Gly Leu Glu Asn Gly Leu Gly Ser Pro Phe Gly Lys Trp Thr
    50          55          60
Leu Ser Ser Ala Ala Gln Thr His Gln Leu Arg Arg Leu Arg Gly Pro
    65          70          75          80
Ala Lys Cys Arg Glu Cys Glu Ala Phe Met Val Ser Gly Thr Glu Cys
    85          90          95
Glu Glu Cys Phe Leu Thr Cys His Lys Arg Cys Leu Glu Thr Leu Leu
    100         105         110
Ile Leu Cys Gly His Arg Arg Leu Pro Ala Arg Thr Pro Leu Phe Gly
    115         120         125
Val Asp Phe Leu Gln Leu Pro Arg Asp Phe Pro Glu Glu Val Pro Phe
    130         135         140
Val Val Thr Lys Cys Thr Ala Glu Ile Glu His Arg Ala Leu Asp Val
    145         150         155         160
Gln Gly Ile Tyr Arg Val Ser Gly Ser Arg Val Arg Val Glu Arg Leu
    165         170         175
Cys Gln Ala Phe Glu Asn Gly Arg Ala Leu Val Glu Leu Ser Gly Asn
    180         185         190

```

```

Ser Pro His Asp Val Ser Ser Val Leu Lys Arg Phe Leu Gln Glu Leu
      195                200                205
Thr Glu Pro Val Ile Pro Phe His Leu Tyr Asp Ala Phe Ile Ser Leu
      210                215                220
Ala Lys Thr Leu His Ala Asp Pro Gly Asp Asp Pro Gly Thr Pro Ser
      225                230                235                240
Pro Ser Pro Glu Val Ile Arg Ser Leu Lys Thr Leu Leu Val Gln Leu
      245                250                255
Pro Asp Ser Asn Tyr Asn Thr Leu Arg His Leu Val Ala His Leu Phe
      260                265                270
Arg Val Ala Ala Arg Phe Met Glu Asn Lys Met Ser Ala Asn Asn Leu
      275                280                285
Gly Ile Val Phe Gly Pro Thr Leu
      290                295 296

```

```

<210> 907
<211> 131
<212>Amino acid
<213> Homo sapiens

```

```

<400> 907
Gly Leu His Val Ile Ser Leu His Ser Ala Asp Gly Arg His Trp Glu
 1      5      10      15
Asp Pro Leu Ser Glu Leu Asp Ser Glu Arg Val Ser Ala Phe Leu Val
      20      25      30
Thr Glu Thr Leu Val Phe Tyr Leu Phe Cys Leu Leu Ala Asp Glu Thr
      35      40      45
Val Val Pro Pro Asp Val Pro Ser Tyr Leu Ser Ser Gln Gly Thr Leu
      50      55      60
Ser Asp Arg Gln Glu Thr Val Val Arg Thr Glu Gly Gly Pro Gln Ala
      65      70      75      80
Asn Gly His Ile Glu Ser Asn Gly Lys Ala Ser Val Thr Val Lys Gln
      85      90      95
Ser Ser Ala Val Thr Val Ser Leu Gly Ala Gly Gly Gly Leu Gln Val
      100     105     110
Phe Thr Gly Gln Val Pro Gly Ile Arg Trp Gly Lys Leu Gly Glu Ala
      115     120     125
His Ala Ser
      130 131

```

```

<210> 908
<211> 124
<212>Amino acid
<213> Homo sapiens

```

```

<400> 908
Lys Ile Lys His Arg Pro Glu Glu Glu Pro Arg Trp Ala Ala Ala Gly
 1      5      10      15
Ala Gln Ser Ala Gly Pro Gly Ala Ala Glu Val Ala Pro Pro Arg Pro
      20      25      30
Gly Thr Val Ala Pro Gly Ala Asn Gly Met Thr Asp Ser Ala Thr Ala
      35      40      45
Asn Gly Asp Asp Arg Asp Pro Glu Ile Glu Leu Phe Val Lys Ala Gly
      50      55      60

```

```

Ile Asp Gly Glu Ser Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe
 65          70          75          80
Met Ile Leu Trp Leu Lys Gly Val Val Phe Asn Val Thr Thr Val Asp
          85          90          95
Leu Lys Arg Lys Pro Ala Asp Leu Arg Asn Leu Ala Pro Gly Thr His
          100          105          110
Pro Pro Phe Leu Ala Phe Asn Trp Tyr Val Lys Thr
          115          120          124

```

<210> 909  
 <211> 111  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 909
Leu Gly Phe Ser Asp Gly Gln Glu Ala Arg Pro Glu Glu Ile Gly Trp
 1          5          10          15
Leu Asn Gly Tyr Asn Glu Thr Thr Gly Glu Arg Gly Asp Phe Pro Gly
          20          25          30
Thr Tyr Val Glu Tyr Ile Gly Arg Lys Lys Ile Ser Pro Pro Thr Pro
          35          40          45
Lys Pro Arg Pro Pro Arg Pro Leu Pro Val Ala Pro Gly Ser Ser Lys
          50          55          60
Thr Glu Ala Asp Val Glu Gln Gln Val Leu Tyr Lys Tyr Arg Lys Lys
 65          70          75          80
Pro Ser Ser Ser His Arg Pro Gln Thr Pro His Asn Gly Lys Ser Lys
          85          90          95
Asn Phe Leu His Lys Gln Gly Leu Lys Lys Lys Lys Ala Ser Leu
          100          105          110 111

```

<210> 910  
 <211> 298  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 910
Arg Thr Arg Gly Val Met Glu Leu Ala Leu Arg Arg Ser Pro Val Pro
 1          5          10          15
Arg Trp Leu Leu Leu Pro Leu Leu Leu Gly Leu Asn Ala Gly Ala
          20          25          30
Val Ile Asp Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val
          35          40          45
Thr Val Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr
          50          55          60
Asn Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
 65          70          75          80
Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu Ile
          85          90          95
Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp Leu Gln
          100          105          110
Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr Gly Phe Ser
          115          120          125
Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu Ala Met Val Ala
          130          135          140

```

```

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Phe Ser Cys His Lys Glu
145          150          155          160
Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys
          165          170          175
Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly
          180          185          190
Thr Ile Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile
          195          200          205
Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met
210          215          220
Ser Leu Leu Glu Asp Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu
225          230          235          240
Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu
          245          250          255
Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn
          260          265          270
Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His
          275          280          285
Gly Trp Cys Cys Gln Thr Trp Ser Leu His
290          295          298

```

&lt;210&gt; 911

&lt;211&gt; 213

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(213)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 911

```

Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro
1          5          10          15
Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Phe Leu Arg
          20          25          30
Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu
          35          40          45
Arg Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
          50          55          60
Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Pro Ala
65          70          75          80
Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg
          85          90          95
Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln
          100          105          110
Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu
          115          120          125
Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser
130          135          140
Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu
145          150          155          160
Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe
          165          170          175
Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp
          180          185          190
Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val
195          200          205
Leu Gly Leu Gln Val

```

210

213

<210> 912  
 <211> 583  
 <212> Amino acid  
 <213> Homo sapiens

<400> 912

Pro	Ser	Met	Lys	Thr	Gly	Glu	Leu	Glu	Lys	Glu	Thr	Ala	Pro	Leu	Arg
1				5				10						15	
Lys	Asp	Ala	Asp	Ser	Ser	Ile	Ser	Val	Leu	Glu	Ile	His	Ser	Gln	Lys
		20						25					30		
Ala	Gln	Ile	Glu	Glu	Pro	Asp	Pro	Glu	Met	Glu	Thr	Ala	Ser	Leu	Asp
		35					40					45			
Ser	Ser	Glu	Met	Ala	Lys	Asp	Leu	Ser	Ser	Lys	Thr	Ala	Leu	Ser	Ser
	50				55						60				
Thr	Glu	Ser	Cys	Thr	Met	Lys	Gly	Glu	Glu	Lys	Ser	Pro	Lys	Thr	Lys
65					70					75					80
Lys	Asp	Lys	Arg	Pro	Pro	Ile	Leu	Glu	Cys	Leu	Glu	Lys	Leu	Glu	Lys
			85					90						95	
Ser	Lys	Lys	Thr	Phe	Leu	Asp	Lys	Asp	Ala	Gln	Arg	Leu	Ser	Pro	Ile
			100					105					110		
Pro	Glu	Glu	Val	Pro	Lys	Ser	Thr	Leu	Glu	Ser	Glu	Lys	Pro	Gly	Ser
		115					120					125			
Pro	Glu	Ala	Ala	Glu	Thr	Ser	Pro	Pro	Ser	Asn	Ile	Ile	Asp	His	Cys
	130					135					140				
Glu	Lys	Leu	Ala	Ser	Glu	Lys	Glu	Val	Val	Glu	Cys	Gln	Ser	Thr	Ser
145					150					155					160
Thr	Val	Gly	Gly	Gln	Ser	Val	Lys	Lys	Val	Asp	Leu	Glu	Thr	Leu	Lys
			165					170						175	
Glu	Asp	Ser	Glu	Phe	Thr	Lys	Val	Glu	Met	Asp	Asn	Leu	Asp	Asn	Ala
			180					185					190		
Gln	Thr	Ser	Gly	Ile	Glu	Glu	Pro	Ser	Glu	Thr	Lys	Gly	Ser	Met	Gln
	195						200					205			
Lys	Ser	Lys	Phe	Lys	Tyr	Lys	Leu	Val	Pro	Glu	Glu	Glu	Thr	Thr	Ala
	210					215						220			
Ser	Glu	Asn	Thr	Glu	Ile	Thr	Ser	Glu	Arg	Gln	Lys	Glu	Gly	Ile	Lys
225				230						235					240
Leu	Thr	Ile	Arg	Ile	Ser	Ser	Arg	Lys	Lys	Lys	Pro	Asp	Ser	Pro	Pro
			245					250					255		
Lys	Val	Leu	Glu	Pro	Glu	Asn	Lys	Gln	Glu	Lys	Thr	Glu	Lys	Glu	Glu
		260					265						270		
Glu	Lys	Thr	Asn	Val	Gly	Arg	Thr	Leu	Arg	Arg	Ser	Pro	Arg	Ile	Ser
	275						280					285			
Arg	Pro	Thr	Ala	Lys	Val	Ala	Glu	Ile	Arg	Asp	Gln	Lys	Ala	Asp	Lys
	290					295					300				
Lys	Arg	Gly	Glu	Gly	Glu	Asp	Glu	Val	Glu	Glu	Glu	Ser	Thr	Ala	Leu
305					310					315					320
Gln	Lys	Thr	Asp	Lys	Lys	Glu	Ile	Leu	Lys	Lys	Ser	Glu	Lys	Asp	Thr
			325					330						335	
Asn	Ser	Lys	Val	Ser	Lys	Val	Lys	Pro	Lys	Gly	Lys	Val	Arg	Trp	Thr
		340					345						350		
Gly	Ser	Arg	Thr	Arg	Gly	Arg	Trp	Lys	Tyr	Ser	Ser	Asn	Asp	Glu	Ser
	355					360						365			
Glu	Gly	Ser	Gly	Ser	Glu	Lys	Ser	Ser	Ala	Ala	Ser	Glu	Glu	Glu	Glu
	370					375				380					
Glu	Lys	Glu	Ser	Glu	Glu	Ala	Ile	Leu	Ala	Asp	Asp	Asp	Glu	Pro	Cys
385					390					395					400
Lys	Lys	Cys	Gly	Leu	Pro	Asn	His	Pro	Glu	Leu	Ile	Leu	Leu	Cys	Asp

```

          405          410          415
Ser Cys Asp Ser Gly Tyr His Thr Ala Leu Pro Phe Ala Pro Pro Leu
          420          425          430
Met Ile His Pro Gln Met Gly Gly Trp Phe Cys Pro Thr Phe Cys Pro
          435          440          445
Thr Leu Asn Leu Leu Leu Leu Glu Lys Leu Glu Asp Gln Phe Gln Asp
          450          455          460
Leu Asp Val Ala Leu Lys Lys Glu Arg Ala Leu Pro Glu Arg Arg Lys
465          470          475          480
Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile Pro Pro
          485          490          495
Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys Asp Ser
          500          505          510
Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg Thr Arg
          515          520          525
Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile Asp Glu
          530          535          540
Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val Gly Arg
545          550          555          560
Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp Ile Ser
          565          570          575
Thr Ile Leu Asp Glu Glu Arg
          580          583

```

<210> 913  
 <211> 178  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 913
Lys Arg Arg Gly Ser Phe Lys Met Ala Glu Leu Asp Gln Leu Pro Asp
1          5          10          15
Glu Ser Ser Ser Ala Lys Ala Leu Val Ser Leu Lys Glu Gly Ser Leu
          20          25          30
Ser Asn Thr Trp Asn Glu Lys Tyr Ser Ser Leu Gln Lys Thr Pro Val
          35          40          45
Trp Lys Gly Arg Asn Thr Ser Ser Ala Val Glu Met Pro Phe Arg Asn
          50          55          60
Ser Lys Arg Ser Arg Leu Phe Ser Asp Glu Asp Asp Arg Gln Ile Asn
          65          70          75          80
Thr Arg Ser Pro Lys Arg Asn Gln Arg Val Ala Met Val Pro Gln Lys
          85          90          95
Phe Thr Ala Thr Met Ser Thr Pro Asp Lys Lys Ala Ser Gln Lys Ile
          100          105          110
Gly Phe Arg Leu Arg Asn Leu Leu Lys Leu Pro Lys Ala His Lys Trp
          115          120          125
Cys Ile Tyr Glu Trp Phe Tyr Ser Asn Ile Asp Lys Pro Leu Phe Glu
          130          135          140
Gly Asp Asn Asp Phe Cys Val Cys Leu Lys Glu Ser Phe Pro Asn Leu
          145          150          155          160
Lys Thr Arg Lys Leu Thr Arg Val Glu Trp Gly Lys Ile Arg Arg Leu
          165          170          175
Met Gly
          178

```

<210> 914  
 <211> 158  
 <212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(158)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 914

```

Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile Pro Ile
 1           5           10           15
Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys Ile Ser
           20           25           30
Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu His Leu
           35           40           45
Asp Leu Tyr Leu Ala Ile Val Gly Leu Leu Ala Ile Thr Ala Val Tyr
           50           55           60
Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala Leu Gln
           65           70           75           80
Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr Ser Phe
           85           90           95
Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe Leu Ala
           100           105           110
Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro Arg Glu
           115           120           125
Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu Pro Trp
           130           135           140
Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Xaa *
145           150           155           157

```

&lt;210&gt; 915

&lt;211&gt; 108

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(108)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 915

```

Xaa Ser Ala Ser Ala Thr Ser Leu Thr Leu Ser His Cys Val Asp Val
 1           5           10           15
Val Lys Gly Leu Leu Asp Phe Lys Lys Arg Arg Gly His Ser Ile Gly
           20           25           30
Gly Ala Pro Glu Gln Arg Tyr Gln Ile Ile Pro Val Met Cys Cys Ser
           35           40           45
Leu Leu Ala Thr Gly Gly Ala Asp Arg Leu Ile His Leu Trp Asn Val
           50           55           60
Val Gly Ser Arg Leu Glu Ala Asn Gln Thr Leu Glu Gly Ala Gly Gly
           65           70           75           80
Ser Ile Thr Ser Val Asp Phe Asp Pro Ser Gly Tyr Gln Val Leu Ala
           85           90           95
Ala Thr Tyr Asn Gln Val Ala Gln Phe Trp Lys *
           100           105           107

```



<210> 916  
 <211> 45  
 <212>Amino acid  
 <213> Homo sapiens

<400> 916  
 Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu  
 1 5 10 15  
 Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg  
 20 25 30  
 Arg Leu Gly Met Val Phe Phe Ser Leu Leu Leu Ser Tyr  
 35 40 45

<210> 917  
 <211> 180  
 <212>Amino acid  
 <213> Homo sapiens

<400> 917  
 Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu  
 1 5 10 15  
 Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser  
 20 25 30  
 Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr  
 35 40 45  
 Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg  
 50 55 60  
 Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr  
 65 70 75 80  
 Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr  
 85 90 95  
 Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe  
 100 105 110  
 Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro  
 115 120 125  
 Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser  
 130 135 140  
 Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu  
 145 150 155 160  
 Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro  
 165 170 175  
 Gln Leu His Asn  
 180

<210> 918  
 <211> 281  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 918

Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp  
 1 5 10 15  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 20 25 30  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 35 40 45  
 Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 50 55 60  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 65 70 75 80  
 Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 85 90 95  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 100 105 110  
 Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp  
 115 120 125  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 130 135 140  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp  
 145 150 155 160  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 165 170 175  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp  
 180 185 190  
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp  
 195 200 205  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 210 215 220  
 Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 225 230 235 240  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 245 250 255  
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 260 265 270  
 Glu Gly Lys Asp Glu Gly Lys Asp Lys  
 275 280 281

&lt;210&gt; 919

&lt;211&gt; 147

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 919

Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly  
 1 5 10 15  
 Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile  
 20 25 30  
 Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala  
 35 40 45  
 Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala  
 50 55 60  
 Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser  
 65 70 75 80  
 Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln  
 85 90 95  
 Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro  
 100 105 110  
 Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

```

          115          120          125
Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu
          130          135          140
Tyr Val Pro
145      147

```

```

<210> 920
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

<400> 920
Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg
 1              5              10              15
Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser
          20          25          30
Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp
          35          40          45
Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn
          50          55          60
Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala
          65          70          75          80
Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu
          85          90          95
Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr
          100          105          110
Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe
          115          120          125
Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys
          130          135          140
Met Ala Ile Leu Ala Arg
145      150

```

```

<210> 921
<211> 125
<212>Amino acid
<213> Homo sapiens

```

```

<400> 921
Ile Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu
 1              5              10              15
Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu
          20          25          30
Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser
          35          40          45
Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser
          50          55          60
Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn
          65          70          75          80
Lys Leu Leu Gln Val Leu Arg Ala Leu Val Asp Ile His Val Leu Cys
          85          90          95
Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro
          100          105          110
Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys

```

115

120

125

<210> 922  
 <211> 111  
 <212>Amino acid  
 <213> Homo sapiens

<400> 922  
 Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr  
 1 5 10 15  
 Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu  
 20 25 30  
 Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn  
 35 40 45  
 Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val  
 50 55 60  
 Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp  
 65 70 75 80  
 His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn  
 85 90 95  
 Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys  
 100 105 110 111

<210> 923  
 <211> 69  
 <212>Amino acid  
 <213> Homo sapiens

<400> 923  
 Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp  
 1 5 10 15  
 Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile  
 20 25 30  
 Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr  
 35 40 45  
 Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu  
 50 55 60  
 Leu Leu Asp Ser Lys  
 65 69

<210> 924  
 <211> 120  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> X = any amino acid or stop code

&lt;400&gt; 924

```

Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly
 1           5           10           15
Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu
           20           25           30
Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met
           35           40           45
Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser
 50           55           60
Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys
 65           70           75           80
Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro
           85           90           95
Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser
           100           105           110
Asp Asn Gly Arg Ser Arg Tyr Arg
           115           120

```

&lt;210&gt; 925

&lt;211&gt; 108

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(108)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 925

```

Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro
 1           5           10           15
Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly
           20           25           30
Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser
           35           40           45
Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe
 50           55           60
Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser
 65           70           75           80
Leu Ile Gly Leu Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly
           85           90           95
Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg
           100           105           108

```

&lt;210&gt; 926

&lt;211&gt; 305

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

```

Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu
 1           5           10           15
Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

```

20 25 30  
 Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile  
 35 40 45  
 Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala  
 50 55 60  
 Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu  
 65 70 75 80  
 Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr  
 85 90 95  
 Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile  
 100 105 110  
 Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg  
 115 120 125  
 Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile  
 130 135 140  
 Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu  
 145 150 155 160  
 Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu  
 165 170 175  
 Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile  
 180 185 190  
 Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly  
 195 200 205  
 Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly  
 210 215 220  
 Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg  
 225 230 235 240  
 Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Ser Ser Lys Val Ser  
 245 250 255  
 Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr  
 260 265 270  
 Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly  
 275 280 285  
 Lys Glu Gly Ser Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser  
 290 295 300  
 Pro  
 305

&lt;210&gt; 927

&lt;211&gt; 303

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

\* &lt;400&gt; 927

Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro  
 1 5 10 15  
 Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser  
 20 25 30  
 Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu  
 35 40 45  
 Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln  
 50 55 60  
 His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro  
 65 70 75 80  
 Arg Gly Asn Thr Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys  
 85 90 95  
 Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val  
 100 105 110  
 Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser

Lys	Thr	Glu	Thr	Val	Glu	Glu	Pro	Met	Glu	Glu	Glu	Glu	Ala	Ala	Lys	
	130					135					140					
Glu	Glu	Lys	Glu	Glu	Ser	Asp	Asp	Glu	Ala	Ala	Val	Glu	Glu	Glu	Glu	
145					150					155					160	
Glu	Glu	Lys	Lys	Pro	Lys	Thr	Lys	Lys	Val	Glu	Lys	Thr	Val	Trp	Asp	
				165					170					175		
Trp	Glu	Leu	Met	Asn	Asp	Ile	Lys	Pro	Ile	Trp	Gln	Arg	Pro	Ser	Lys	
			180					185					190			
Glu	Val	Glu	Glu	Asp	Glu	Tyr	Lys	Ala	Phe	Tyr	Lys	Ser	Phe	Ser	Lys	
	195						200					205				
Glu	Ser	Asp	Asp	Pro	Met	Ala	Tyr	Ile	His	Phe	Thr	Ala	Glu	Gly	Glu	
	210					215					220					
Val	Thr	Phe	Lys	Ser	Ile	Leu	Phe	Val	Pro	Thr	Ser	Ala	Pro	Arg	Gly	
225					230					235				240		
Leu	Phe	Asp	Glu	Tyr	Gly	Ser	Lys	Lys	Ser	Asp	Tyr	Ile	Lys	Leu	Tyr	
				245					250					255		
Val	Arg	Arg	Val	Phe	Ile	Thr	Asp	Asp	Phe	His	Asp	Met	Met	Pro	Lys	
			260					265					270			
Tyr	Leu	Asn	Phe	Val	Lys	Gly	Val	Val	Asp	Ser	Asp	Asp	Leu	Pro	Leu	
	275					280						285				
Asn	Val	Ser	Arg	Glu	Thr	Leu	Gln	Gln	His	Lys	Leu	Leu	Lys	Val		
	290					295					300			303		

```
<210> 928
<211> 147
<212> Amino acid
<213> Homo sapiens
```

[illegible]

```
<210> 929
<211> 183
<212>Amino acid
<213> Homo sapiens
```

&lt;400&gt; 929

```

Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu
 1          5          10          15
Ile Arg Val Glu Thr Pro Gly Pro Pro Ala Pro Pro Ala Asp Glu Arg
          20          25          30
Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp
          35          40          45
Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly
          50          55          60
Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu
          65          70          75          80
Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu
          85          90          95
Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu
          100          105          110
Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu
          115          120          125
Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln
          130          135          140
Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp
          145          150          155          160
Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Pro Val Gly Gln Leu
          165          170          175
Asp Ser Ser Pro Ser Leu Pro
          180          183

```

&lt;210&gt; 930

&lt;211&gt; 187

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

```

Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln
 1          5          10          15
His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn
          20          25          30
Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met
          35          40          45
Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr
          50          55          60
Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp
          65          70          75          80
Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp
          85          90          95
Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr
          100          105          110
Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Gln Ile Leu Ala Ser His
          115          120          125
Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His
          130          135          140
Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile
          145          150          155          160
Ile Asn Ile Asn Arg Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp
          165          170          175
Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys
          180          185          187

```



<210> 931  
 <211> 192  
 <212>Amino acid  
 <213> Homo sapiens

<400> 931  
 Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg  
 1 5 10 15  
 Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe  
 20 25 30  
 Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val  
 35 40 45  
 Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Ile Arg Trp Phe  
 50 55 60  
 Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp  
 65 70 75 80  
 Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn  
 85 90 95  
 Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val  
 100 105 110  
 Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly  
 115 120 125  
 Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu  
 130 135 140  
 Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr  
 145 150 155 160  
 His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr  
 165 170 175  
 Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu  
 180 185 190 192

<210> 932  
 <211> 545  
 <212>Amino acid  
 <213> Homo sapiens

<400> 932  
 Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln  
 1 5 10 15  
 Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser  
 20 25 30  
 Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp  
 35 40 45  
 Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly  
 50 55 60  
 Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys  
 65 70 75 80  
 Gln Ile Asp Ile Met Val Ala His Lys Lys Ser Glu Trp Glu Gly Arg  
 85 90 95  
 Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys  
 100 105 110  
 Ser Leu Arg Ser Gln Leu Asp Val Thr His Lys Glu Val Gly Met Leu

```

      115      120      125
His Gln Gln Val Glu Glu His Glu Lys Ile Lys Gln Glu Met Thr Met
      130      135      140
Glu Tyr Lys Gln Glu Leu Lys Lys Leu His Glu Glu Leu Cys Ile Leu
145      150      155      160
Lys Arg Ser Tyr Glu Lys Leu Gln Lys Lys Gln Met Arg Glu Phe Arg
      165      170      175
Gly Asn Thr Lys Asn His Arg Glu Asp Arg Ser Glu Ile Glu Arg Leu
      180      185      190
Thr Ala Lys Ile Glu Glu Phe Arg Gln Lys Ser Leu Asp Trp Glu Lys
      195      200      205
Gln Arg Leu Ile Tyr Gln Gln Gln Val Ser Ser Leu Glu Ala Gln Arg
      210      215      220
Lys Ala Leu Ala Glu Gln Ser Glu Ile Ile Gln Ala Gln Leu Val Asn
225      230      235      240
Arg Lys Gln Lys Leu Glu Ser Val Glu Leu Ser Ser Gln Ser Glu Ile
      245      250      255
Gln His Leu Ser Ser Lys Leu Glu Arg Ala Asn Asp Thr Ile Cys Ala
      260      265      270
Asn Glu Leu Glu Ile Glu Arg Leu Thr Met Arg Val Asn Asp Leu Val
      275      280      285
Gly Thr Ser Met Thr Val Leu Gln Glu Gln Gln Gln Lys Glu Glu Lys
      290      295      300
Leu Arg Glu Ser Glu Lys Leu Leu Glu Ala Leu Gln Glu Glu Lys Arg
305      310      315      320
Glu Leu Lys Ala Ala Leu Gln Ser Gln Glu Asn Leu Ile His Glu Ala
      325      330      335
Arg Ile Gln Lys Glu Lys Leu Gln Glu Lys Val Lys Ala Thr Asn Thr
      340      345      350
Gln His Ala Val Glu Ala Ile Ser Leu Glu Ser Val Ser Ala Thr Cys
      355      360      365
Lys Gln Leu Ser Gln Glu Leu Met Glu Lys Tyr Glu Glu Leu Lys Arg
      370      375      380
Met Glu Ala His Asn Asn Glu Tyr Lys Ala Glu Ile Lys Lys Leu Lys
385      390      395      400
Glu Gln Ile Leu Gln Gly Glu Gln Ser Tyr Ser Ser Ala Leu Glu Gly
      405      410      415
Met Lys Met Glu Ile Ser His Leu Thr Gln Glu Leu His Gln Arg Asp
      420      425      430
Ile Thr Ile Ala Ser Thr Lys Gly Ser Ser Ser Asp Met Glu Lys Arg
      435      440      445
Leu Arg Ala Glu Met Gln Lys Ala Glu Asp Lys Ala Val Glu His Lys
      450      455      460
Glu Ile Leu Asp Gln Leu Glu Ser Leu Lys Leu Glu Asn Arg His Leu
465      470      475      480
Ser Glu Met Val Met Lys Leu Glu Leu Gly Leu His Glu Cys Ser Leu
      485      490      495
Pro Val Ser Pro Leu Gly Ser Ile Ala Thr Arg Phe Leu Glu Glu
      500      505      510
Glu Leu Arg Ser His His Ile Leu Glu Arg Leu Asp Ala His Ile Glu
      515      520      525
Glu Leu Lys Arg Glu Ser Glu Lys Thr Val Arg Gln Phe Thr Ala Leu
      530      535      540
Lys
545

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<210> 933
<211> 297
<212> Amino acid
<213> Homo sapiens

```

&lt;400&gt; 933

```

Thr Gly Phe Leu Gly Trp Ser Gln Gly Pro Ser Leu Thr Pro Thr Ser
 1          5          10          15
Leu Ser Ala Leu Tyr Pro Ser Gln Val Glu Glu Thr Gly Val Val Leu
          20          25          30
Ser Leu Glu Gln Thr Glu Gln His Ser Arg Arg Pro Ile Gln Arg Gly
          35          40          45
Ala Pro Ser Gln Lys Asp Thr Pro Asn Pro Gly Asp Ser Leu Asp Thr
          50          55          60
Pro Gly Pro Arg Ile Leu Ala Phe Leu His Pro Pro Ser Leu Ser Glu
          65          70          75          80
Ala Ala Leu Ala Ala Asp Pro Arg Arg Phe Cys Ser Pro Asp Leu Arg
          85          90          95
Arg Leu Leu Gly Pro Ile Leu Asp Gly Ala Ser Val Ala Ala Thr Pro
          100          105          110
Ser Thr Pro Leu Ala Thr Arg His Pro Gln Ser Pro Leu Ser Ala Asp
          115          120          125
Leu Pro Asp Glu Leu Pro Val Gly Thr Glu Asn Val His Arg Leu Phe
          130          135          140
Thr Ser Gly Lys Asp Thr Glu Ala Val Glu Thr Asp Leu Asp Ile Ala
          145          150          155          160
Gln Asp Ala Asp Ala Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Ser
          165          170          175
Met Asp Asp Asp Phe Gln Leu Asn Ala Ser Glu Gln Leu Pro Arg Ala
          180          185          190
Tyr His Arg Pro Leu Gly Ala Val Pro Arg Pro Arg Ala Arg Ser Phe
          195          200          205
His Gly Leu Ser Pro Pro Ala Leu Glu Pro Ser Leu Leu Pro Arg Trp
          210          215          220
Gly Ser Asp Pro Arg Leu Ser Cys Ser Ser Pro Ser Arg Gly Asp Pro
          225          230          235          240
Ser Ala Ser Ser Pro Met Ala Gly Ala Arg Lys Arg Thr Leu Ala Gln
          245          250          255
Ser Ser Lys Asp Glu Asp Glu Gly Val Glu Leu Leu Gly Val Arg Pro
          260          265          270
Pro Lys Arg Ser Pro Ser Pro Glu His Glu Asn Phe Leu Leu Phe Pro
          275          280          285
Leu Ser Leu Ser Phe Leu Leu Thr Gly
          290          295          297

```

&lt;210&gt; 934

&lt;211&gt; 140

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 934

```

Glu Leu Gln Asp Cys Phe Asp Val His Asp Ala Ser Trp Glu Glu Gln
 1          5          10          15
Ile Phe Trp Gly Trp His Asn Asp Val His Ile Phe Asp Thr Lys Thr
          20          25          30
Gln Thr Trp Phe Gln Pro Glu Ile Lys Gly Gly Val Pro Pro Gln Pro
          35          40          45
Arg Ala Ala His Thr Cys Ala Val Leu Gly Asn Lys Gly Tyr Ile Phe
          50          55          60
Gly Gly Arg Val Leu Gln Thr Arg Met Asn Asp Leu His Tyr Leu Asn
          65          70          75          80
Leu Asp Thr Trp Thr Trp Ser Gly Arg Ile Thr Ile Asn Gly Glu Ser

```

				85					90					95	
Pro	Lys	His	Arg	Ser	Trp	His	Thr	Leu	Thr	Pro	Ile	Ala	Asp	Asp	Lys
			100					105					110		
Leu	Phe	Leu	Cys	Gly	Gly	Leu	Asn	Ala	Tyr	Asn	Met	Pro	Leu	Ser	Asp
		115					120					125			
Gly	Trp	Ile	His	Asn	Val	Thr	Thr	His	Cys	Trp	Lys				
	130						135					140			

&lt;210&gt; 935

&lt;211&gt; 97

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 935

Phe	Phe	Phe	Leu	Arg	Thr	Arg	Ser	His	Ser	Val	Thr	Pro	Arg	Trp	Glu
1				5					10					15	
Cys	Ser	Asp	Asp	Ile	Thr	Ala	His	Trp	Gln	Pro	Gln	Pro	Trp	Gly	Ser
		20						25					30		
Ser	Asp	Pro	Leu	Thr	Phe	Ser	Arg	Pro	Gln	Val	Val	Val	Pro	Pro	Arg
	35						40					45			
His	Thr	Thr	Leu	Cys	Pro	Ala	Asn	Phe	Phe	Val	Phe	Cys	Ile	Phe	Cys
	50					55					60				
Arg	Asn	Arg	Ile	Ser	Pro	Cys	Trp	Pro	Gly	Trp	Ser	Arg	Thr	Pro	Trp
	65				70					75					80
Ala	Gln	Leu	Ile	Arg	Leu	Pro	Arg	Pro	Pro	Lys	Val	Leu	Gly	Leu	Gln
				85					90					95	
Val															
97															

&lt;210&gt; 936

&lt;211&gt; 245

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 936

Pro	Arg	Glu	Gly	Gln	Val	Lys	Gln	Gly	Leu	Leu	Gly	Asp	Cys	Trp	Phe
1				5					10					15	
Leu	Cys	Ala	Cys	Ala	Ala	Leu	Gln	Lys	Ser	Arg	His	Leu	Leu	Asp	Gln
		20						25					30		
Val	Ile	Pro	Pro	Gly	Gln	Pro	Ser	Trp	Ala	Asp	Gln	Glu	Tyr	Arg	Gly
	35						40				45				
Ser	Phe	Thr	Cys	Arg	Ile	Trp	Gln	Phe	Gly	Arg	Trp	Val	Glu	Val	Thr
	50					55				60					
Thr	Asp	Asp	Arg	Leu	Pro	Cys	Leu	Ala	Gly	Arg	Leu	Cys	Phe	Ser	Arg
	65				70					75					80
Cys	Gln	Arg	Glu	Asp	Val	Phe	Trp	Leu	Pro	Leu	Leu	Glu	Lys	Val	Tyr
				85					90					95	
Ala	Lys	Val	His	Gly	Ser	Tyr	Glu	His	Leu	Trp	Ala	Gly	Gln	Val	Ala
		100						105					110		
Asp	Ala	Leu	Val	Asp	Leu	Thr	Gly	Gly	Leu	Ala	Glu	Arg	Trp	Asn	Leu
	115						120					125			
Lys	Gly	Val	Ala	Gly	Ser	Gly	Gly	Gln	Gln	Asp	Arg	Pro	Gly	Arg	Trp
	130						135					140			
Glu	His	Arg	Thr	Cys	Arg	Gln	Leu	Leu	His	Leu	Lys	Asp	Gln	Cys	Leu

```

145          150          155          160
Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly Glu Ala Arg Gly Gln
          165          170          175
His Gly Arg Ala Ala Ala Ser Val Pro Pro Thr Ala Arg Pro Gln Ala
          180          185          190
His Cys Ser Phe Leu Cys Asp Trp Leu His Ser Pro Val Arg Thr Lys
          195          200          205
Trp Glu Glu Val Ser Leu Phe Ser Arg Val Val Ser Ser Val Cys Asp
          210          215          220
Leu Pro Leu Leu Ser Ser Arg Gly Thr Trp Pro Phe Ser Pro Leu
225          230          235          240
Thr Ser Pro Phe His
          245

```

```

<210> 937
<211> 211
<212>Amino acid
<213> Homo sapiens

```

```

          <400> 937
Ala Glu Cys Leu Glu Ala Ser Ile Ala Arg Tyr Ala His Arg Val Ala
  1          5          10          15
Asn Ser Arg Tyr Thr Phe Asp Gly Glu Thr Val Thr Leu Ser Pro Ser
          20          25          30
Gln Gly Val Asn Gln Leu His Gly Gly Pro Glu Gly Phe Asp Lys Arg
          35          40          45
Arg Trp Gln Ile Val Asn Gln Asn Asp Arg Gln Val Leu Phe Ala Leu
          50          55          60
Ser Ser Asp Asp Gly Asp Gln Gly Phe Pro Gly Asn Leu Gly Ala Thr
          65          70          75          80
Val Gln Tyr Arg Leu Thr Asp Asp Asn Arg Ile Ser Ile Thr Tyr Arg
          85          90          95
Ala Thr Val Asp Lys Pro Cys Pro Val Asn Met Thr Asn His Val Tyr
          100          105          110
Phe Asn Leu Asp Gly Glu Gln Ser Asp Val Arg Asn His Lys Leu Gln
          115          120          125
Ile Leu Ala Asp Glu Tyr Leu Pro Val Asp Glu Gly Gly Ile Pro His
          130          135          140
Asp Gly Leu Lys Ser Val Ala Gly Thr Ser Phe Asp Phe Arg Ser Ala
145          150          155          160
Lys Ile Ile Ala Ser Glu Phe Leu Ala Asp Asp Asp Gln Arg Lys Val
          165          170          175
Lys Gly Tyr Asp His Ala Phe Leu Leu Gln Ala Lys Gly Asp Gly Lys
          180          185          190
Lys Val Ala Ala His Val Trp Ser Ala Asp Glu Lys Leu Gln Leu Lys
          195          200          205
Val Tyr Thr
210 211

```

```

<210> 938
<211> 118
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 938

```

Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met
 1           5           10           15
Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln
          20           25           30
His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu
          35           40           45
Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu
          50           55           60
His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala
          65           70           75           80
Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn
          85           90           95
Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg
          100           105           110
Ala Ser Cys Leu Phe Leu
          115           118

```

&lt;210&gt; 939

&lt;211&gt; 143

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 939

```

Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu Glu
 1           5           10           15
Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu
          20           25           30
Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe
          35           40           45
Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser
          50           55           60
Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr
          65           70           75           80
Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln
          85           90           95
Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu
          100           105           110
Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu
          115           120           125
Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu
          130           135           140           143

```

&lt;210&gt; 940

&lt;211&gt; 63

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 940

```

Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro
 1           5           10           15
Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu
          20           25           30
Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

```

```
<210> 941
<211> 238
<212> Amino acid
<213> Homo sapiens
```

```
<210> 942
<211> 158
<212> Amino acid
<213> Homo sapiens
```

519

50					55					60					
Lys	Val	Val	Glu	Arg	Glu	Leu	Asp	Ala	Leu	Leu	Glu	Gln	Gln	Asn	Thr
65					70					75					80
Ile	Glu	Ser	Lys	Met	Val	Thr	Leu	His	Arg	Met	Gly	Pro	Asn	Leu	Gln
				85					90					95	
Leu	Ile	Glu	Gly	Asp	Ala	Lys	Gln	Leu	Ala	Gly	Met	Ile	Thr	Phe	Thr
			100					105					110		
Cys	Asn	Leu	Ala	Glu	Asn	Val	Ser	Ser	Lys	Val	Arg	Gln	Leu	Asp	Leu
			115				120					125			
Ala	Lys	Asn	Arg	Leu	Tyr	Gln	Ala	Ile	Gln	Arg	Ala	Asp	Asp	Ile	Leu
			130			135					140				
Asp	Leu	Lys	Phe	Cys	Met	Asp	Gly	Val	Gln	Thr	Ala	Leu	Arg		
145					150					155			158		

```
<210> 943
<211> 235
<212>Amino acid
<213> Homo sapiens
```

<400> 943																
Ala	Val	Glu	Phe	Arg	Val	Pro	Arg	Ser	Gly	Ser	Ala	Tyr	Leu	Tyr	Ser	
1				5					10					15		
Tyr	Val	Thr	Val	Gly	Glu	Leu	Trp	Ala	Phe	Thr	Thr	Gly	Trp	Asn	Leu	
			20					25					30			
Ile	Leu	Ser	Tyr	Val	Ile	Gly	Thr	Ala	Ser	Val	Ala	Arg	Ala	Trp	Ser	
		35					40					45				
Ser	Ala	Phe	Asp	Asn	Leu	Ile	Gly	Asn	His	Ile	Ser	Lys	Thr	Leu	Gln	
	50					55					60					
Gly	Ser	Ile	Ala	Leu	His	Val	Pro	His	Val	Leu	Ala	Glu	Tyr	Pro	Asp	
65					70					75					80	
Phe	Phe	Ala	Leu	Gly	Leu	Val	Leu	Leu	Leu	Thr	Gly	Leu	Leu	Ala	Leu	
				85					90					95		
Gly	Ala	Ser	Glu	Ser	Ala	Leu	Val	Thr	Lys	Val	Phe	Thr	Gly	Val	Asn	
			100					105					110			
Leu	Leu	Val	Leu	Gly	Phe	Val	Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp	
		115				120						125				
Val	His	Asn	Trp	Lys	Leu	Thr	Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala	
	130					135					140					
Glu	Leu	Asn	Asp	Thr	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe	
145				150					155				160			
Val	Pro	Phe	Gly	Phe	Glu	Gly	Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe	
				165					170				175			
Tyr	Ala	Phe	Val	Gly	Phe	Asp	Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala	
			180				185						190			
Gln	Asn	Pro	Gln	Arg	Ser	Ile	Pro	Met	Gly	Ile	Gly	Ile	Ser	Leu	Ser	
	195					200					205					
Val	Cys	Phe	Leu	Ala	Asp	Phe	Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met	
	210				215						220					
Met	Pro	Tyr	Tyr	Gln	Leu	Gln	Pro	Glu	Ser	Pro						
225				230						235						

```
<210> 944
<211> 284
<212>Amino acid
<213> Homo sapiens
```



&lt;400&gt; 944

Gly Phe His Pro Asn Thr Thr His Tyr Arg Ala Arg Ala Ala Ala Arg  
 1 5 10 15  
 Ala Gly Ala Gly Ser Phe Val Gly Glu Val Ser Ala Val Asp Lys Asp  
 20 25 30  
 Phe Gly Pro Asn Gly Glu Val Arg Tyr Ser Phe Glu Met Val Gln Pro  
 35 40 45  
 Asp Phe Glu Leu His Ala Ile Ser Gly Glu Ile Thr Asn Thr His Gln  
 50 55 60  
 Phe Asp Arg Glu Ser Leu Met Arg Arg Arg Gly Thr Ala Val Phe Ser  
 65 70 75 80  
 Phe Thr Val Ile Ala Thr Asp Gln Gly Ile Pro Gln Pro Leu Lys Asp  
 85 90 95  
 Gln Ala Thr Val His Val Tyr Met Lys Asp Ile Asn Asp Asn Ala Pro  
 100 105 110  
 Lys Phe Leu Lys Asp Phe Tyr Gln Ala Thr Ile Ser Glu Ser Ala Ala  
 115 120 125  
 Asn Leu Thr Gln Val Leu Arg Val Ser Ala Ser Asp Val Asp Glu Gly  
 130 135 140  
 Asn Asn Gly Leu Ile His Tyr Ser Ile Ile Lys Gly Asn Glu Glu Arg  
 145 150 155 160  
 Gln Phe Ala Ile Asp Ser Thr Ser Gly Gln Val Thr Leu Ile Gly Lys  
 165 170 175  
 Leu Asp Tyr Glu Ala Thr Pro Ala Tyr Ser Leu Val Ile Gln Ala Val  
 180 185 190  
 Asp Ser Gly Thr Ile Pro Leu Asn Ser Thr Cys Thr Leu Asn Ile Asp  
 195 200 205  
 Ile Leu Asp Glu Asn Asp Asn Thr Pro Phe Phe Leu Leu Asn Gln His  
 210 215 220  
 Phe Phe Val Asp Val Leu Glu Asn Met Arg Ile Gly Glu Leu Gly Ala  
 225 230 235 240  
 Ser Gly Thr Ala Thr Asp Ser Asp Ser Gly Asp Ile Ala Asp Leu Tyr  
 245 250 255  
 Tyr Lys Phe Thr Gly Thr Lys His Pro Pro Gly Thr Phe Ser Ile Ser  
 260 265 270  
 Pro Lys His Leu Gly Val Phe Phe Leu Ala Gln Lys  
 275 280 284

&lt;210&gt; 945

&lt;211&gt; 119

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 945

Gly Asp Cys Tyr Asp Leu Tyr Gly Gly Glu Lys Phe Ala Thr Leu Ala  
 1 5 10 15  
 Glu Leu Val Gln Tyr Tyr Met Glu His His Gly Gln Leu Lys Glu Lys  
 20 25 30  
 Asn Gly Asp Val Ile Glu Leu Lys Asn Pro Leu Asn Cys Ala Asp Pro  
 35 40 45  
 Thr Ser Gln Arg Trp Phe His Gly His Leu Ser Gly Lys Glu Ala Glu  
 50 55 60  
 Lys Leu Leu Thr Glu Lys Gly Lys His Ser Ser Phe Leu Val Arg Glu  
 65 70 75 80  
 Ser Gln Ser His Pro Gly Asp Phe Val Leu Ser Val Cys Thr Gly Asp  
 85 90 95  
 Asp Lys Gly Glu Ser Asn Asp Gly Lys Ser Lys Val Thr His Val Met

100 105 110  
 Ile His Cys Gln Glu Leu Lys  
 115 119

<210> 946  
 <211> 166  
 <212> Amino acid  
 <213> Homo sapiens

<400> 946  
 Ile Asp Ser Gly Asn Gln Asn Gly Gly Asn Asp Asp Lys Thr Lys Asn  
 1 5 10 15  
 Ala Glu Arg Asn Tyr Leu Asn Val Leu Pro Gly Glu Phe Tyr Ile Thr  
 20 25 30  
 Arg His Ser Asn Leu Ser Glu Ile His Val Ala Phe His Leu Cys Val  
 35 40 45  
 Asp Asp His Val Lys Ser Gly Asn Ile Thr Ala Arg Asp Pro Ala Ile  
 50 55 60  
 Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr  
 65 70 75 80  
 Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met  
 85 90 95  
 Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val  
 100 105 110  
 Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg  
 115 120 125  
 Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr  
 130 135 140  
 Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu  
 145 150 155 160  
 Thr Leu Thr Ser Lys His  
 165 166

<210> 947  
 <211> 121  
 <212> Amino acid  
 <213> Homo sapiens

<400> 947  
 Ser Ile Leu Pro Ala Leu Leu Val Thr Ile Leu Ile Phe Met Asp Gln  
 1 5 10 15  
 Gln Ile Thr Ala Val Ile Val Asn Arg Lys Glu Asn Lys Leu Lys Lys  
 20 25 30  
 Ala Ala Gly Tyr His Leu Asp Leu Phe Trp Val Gly Ile Leu Met Ala  
 35 40 45  
 Leu Cys Ser Phe Met Gly Leu Pro Trp Tyr Val Ala Ala Thr Val Ile  
 50 55 60  
 Ser Ile Ala His Ile Asp Ser Leu Lys Met Glu Thr Glu Thr Ser Ala  
 65 70 75 80  
 Pro Gly Glu Gln Pro Gln Phe Leu Gly Val Arg Glu Gln Arg Val Thr  
 85 90 95  
 Gly Ile Ile Val Phe Ile Leu Thr Gly Ile Ser Val Phe Leu Ala Pro  
 100 105 110  
 Ile Leu Lys Cys Ile Pro Leu Pro Val

115

120 121

<210> 948  
 <211> 191  
 <212>Amino acid  
 <213> Homo sapiens

<400> 948  
 Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp  
 1 5 10 15  
 Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr  
 20 25 30  
 Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr  
 35 40 45  
 Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val  
 50 55 60  
 Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser  
 65 70 75 80  
 Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser  
 85 90 95  
 Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile  
 100 105 110  
 Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly  
 115 120 125  
 Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp  
 130 135 140  
 Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr  
 145 150 155 160  
 Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val  
 165 170 175  
 Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser  
 180 185 190 191

<210> 949  
 <211> 98  
 <212>Amino acid  
 <213> Homo sapiens

<400> 949  
 Phe Phe Ser Ser Ile Gln Leu Thr Asp Asp Gln Gly Pro Val Leu Met  
 1 5 10 15  
 Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser  
 20 25 30  
 Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu  
 35 40 45  
 Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro  
 50 55 60  
 Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser  
 65 70 75 80  
 Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr  
 85 90 95  
 Ala Cys  
 98

<210> 950  
 <211> 196  
 <212> Amino acid  
 <213> Homo sapiens

<400> 950  
 Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser  
 1 5 10 15  
 Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr  
 20 25 30  
 Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr  
 35 40 45  
 Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln  
 50 55 60  
 Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg  
 65 70 75 80  
 Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu  
 85 90 95  
 Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val  
 100 105 110  
 Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile  
 115 120 125  
 Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val  
 130 135 140  
 Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala  
 145 150 155 160  
 Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val  
 165 170 175  
 Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Lys Ile  
 180 185 190  
 His Pro Gln Tyr  
 195 196

<210> 951  
 <211> 721  
 <212> Amino acid  
 <213> Homo sapiens

<400> 951  
 Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr  
 1 5 10 15  
 Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Val Gly  
 20 25 30  
 Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu  
 35 40 45  
 Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile  
 50 55 60  
 Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Met Leu Asn Asn  
 65 70 75 80  
 Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val  
 85 90 95  
 Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly  
 100 105 110  
 Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

115	120	125
Ala Phe Asp Pro Pro Asn Phe Pro Ile Cys Leu Leu Gly Asn Arg Thr		
130	135	140
Leu Ser Arg His Gly Phe Asp Val Cys Ala Lys Leu Ala Trp Glu Gly		
145	150	155
Asn Glu Thr Val Thr Thr Arg Leu Trp Gly Leu Phe Cys Ser Ser Arg		160
165	170	175
Phe Leu Asn Ala Thr Cys Asp Glu Tyr Phe Thr Arg Asn Asn Val Thr		
180	185	190
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Leu Ile Lys Glu Asn		
195	200	205
Leu Trp Ser Ser Tyr Leu Thr Lys Gly Val Ile Val Glu Arg Ser Gly		
210	215	220
Met Thr Ser Val Gly Leu Ala Asp Gly Thr Pro Ile Asp Met Asp His		
225	230	235
Pro Tyr Val Phe Ser Asp Met Thr Ser Tyr Phe Thr Leu Leu Val Gly		240
245	250	255
Ile Tyr Phe Pro Ser Val Thr Gly Ile Met Ala Gly Ser Asn Arg Ser		
260	265	270
Gly Asp Leu Arg Asp Ala Gln Lys Ser Ile Pro Thr Gly Thr Ile Leu		
275	280	285
Ala Ile Ala Thr Thr Ser Ala Val Tyr Ile Ser Ser Val Val Leu Phe		
290	295	300
Gly Ala Cys Ile Glu Gly Val Val Leu Arg Asp Lys Phe Gly Glu Ala		
305	310	315
Val Asn Gly Asn Leu Val Val Gly Thr Leu Ala Trp Pro Ser Pro Trp		320
325	330	335
Val Ile Val Ile Gly Ser Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln		
340	345	350
Ser Leu Thr Gly Ala Pro Arg Leu Leu Gln Ala Ile Ser Arg Asp Gly		
355	360	365
Ile Val Pro Phe Leu Gln Val Phe Gly His Gly Lys Ala Asn Gly Glu		
370	375	380
Pro Thr Trp Ala Leu Leu Thr Ala Cys Ile Cys Glu Ile Gly Ile		
385	390	395
Leu Ile Ala Ser Leu Asp Glu Val Ala Pro Ile Leu Ser Met Phe Phe		
405	410	415
Leu Met Cys Tyr Met Phe Val Asn Leu Ala Cys Ala Val Gln Thr Leu		
420	425	430
Leu Arg Thr Pro Asn Trp Arg Pro Arg Phe Arg Tyr Tyr His Trp Thr		
435	440	445
Leu Ser Phe Leu Gly Met Ser Leu Cys Leu Ala Leu Met Phe Ile Cys		
450	455	460
Ser Trp Tyr Tyr Ala Leu Val Ala Met Leu Ile Ala Gly Leu Ile Tyr		
465	470	475
Lys Tyr Ile Glu Tyr Arg Gly Ala Lys Lys Glu Trp Gly Asp Gly Ile		
485	490	495
Arg Gly Leu Ser Leu Ser Ala Ala Arg Tyr Ala Leu Leu Arg Leu Glu		
500	505	510
Glu Gly Pro Pro His Thr Lys Asn Trp Arg Pro Gln Leu Leu Val Leu		
515	520	525
Val Arg Val Asp Gln Asp Gln Asn Val Val His Pro Gln Leu Leu Ser		
530	535	540
Leu Thr Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser		
545	550	555
Val Leu Glu Gly Thr Phe Leu Glu Asn His Pro Gln Ala Gln Arg Ala		
565	570	575
Glu Glu Ser Ile Arg Arg Leu Met Glu Ala Glu Lys Val Lys Gly Phe		
580	585	590
Cys Gln Val Val Ile Ser Ser Asn Leu Arg Asp Gly Val Ser His Leu		
595	600	605
Ile Gln Ser Gly Gly Leu Gly Gly Leu Gln His Asn Thr Val Leu Val		
610	615	620
Gly Trp Pro Arg Asn Trp Arg Gln Lys Glu Asp His Gln Thr Trp Arg		

```

625          630          635          640
Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu
          645          650          655
Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe
          660          665          670
Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met
          675          680          685
Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys
          690          695          700
Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala
705          710          715          720
Met
721

```

```

<210> 952
<211> 42
<212>Amino acid
<213> Homo sapiens

```

```

<400> 952
Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys
 1          5          10          15
Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala
          20          25          30
Ser Gly Ser Asp Asp Ala Lys Gly Thr Val
          35          40          42

```

```

<210> 953
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 953
Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu
 1          5          10          15
Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala
          20          25          30
Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val
          35          40          45
Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile
          50          55          60
Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro
65          70          75          80

```

```

<210> 954
<211> 202
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 954

Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val  
 1 5 10 15  
 Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu  
 20 25 30  
 Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys  
 35 40 45  
 His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly  
 50 55 60  
 Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn  
 65 70 75 80  
 Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro  
 85 90 95  
 Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg  
 100 105 110  
 Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu  
 115 120 125  
 Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr  
 130 135 140  
 Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala  
 145 150 155 160  
 Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu  
 165 170 175  
 Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr  
 180 185 190  
 Pro Val Gly Asp Pro Met Asp Leu Lys Met  
 195 200 202

&lt;210&gt; 955

&lt;211&gt; 188

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr  
 1 5 10 15  
 Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln  
 20 25 30  
 Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu  
 35 40 45  
 Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln  
 50 55 60  
 Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser  
 65 70 75 80  
 His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala  
 85 90 95  
 Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln  
 100 105 110  
 Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys  
 115 120 125  
 Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile  
 130 135 140  
 Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr  
 145 150 155 160  
 Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala  
 165 170 175  
 Asn Arg Leu Gln Asp Ala Ile Ala Lys Gly Arg Gly

180

185

188

<210> 956  
 <211> 132  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 956

```

Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly
 1           5           10           15
Glu Ala Val Thr Glu Glu Ser Pro Ala Pro Pro Asn Glu Ala Thr Pro
          20           25           30
Thr Ala Ala Pro Pro Thr Leu Pro Thr Thr Val Gly Ala Thr Gly
          35           40           45
Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala
          50           55           60
Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr
          65           70           75           80
Thr Thr Thr Val Ala Thr Thr Thr Thr Thr Thr Ala Ala Ala Thr Thr
          85           90           95
Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu
          100          105          110
Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn
          115          120          125
Ser Lys Trp Ala
          130          132

```

<210> 957  
 <211> 220  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 957

```

Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser
 1           5           10           15
Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr
          20           25           30
Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala
          35           40           45
Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala
          50           55           60
Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr
          65           70           75           80
Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser
          85           90           95
Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn
          100          105          110
Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly
          115          120          125
Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp
          130          135          140
Phe Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe
          145          150          155          160
Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser

```



```

          165          170          175
Asp Pro Phe Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe
          180          185          190
Gly Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly
          195          200          205
Phe Ala Asp Phe Ser Thr Ile Glu Gly Arg Arg Gly
          210          215          220

```

<210> 958  
 <211> 250  
 <212> Amino acid  
 <213> Homo sapiens

```

          <400> 958
Arg Thr Arg Gly Gly Ser Gly Asn Ser Ser Gln Pro Ser Leu Arg Glu
  1          5          10          15
Gly His Asp Lys Pro Val Phe Asn Gly Ala Gly Lys Pro His Ser Ser
          20          25          30
Thr Ser Ser Pro Ser Val Pro Lys Thr Ser Ala Ser Arg Thr Gln Lys
          35          40          45
Ser Ala Val Glu His Lys Ala Lys Lys Ser Leu Ser His Pro Ser His
          50          55          60
Ser Arg Pro Gly Pro Met Val Thr Pro His Asn Lys Ala Lys Ser Pro
          65          70          75          80
Gly Val Arg Gln Pro Gly Ser Ser Ser Ser Ser Ala Pro Gly Gln Pro
          85          90          95
Ser Thr Gly Val Ala Arg Pro Thr Val Ser Ser Gly Pro Val Pro Arg
          100          105          110
Arg Gln Asn Gly Ser Ser Ser Ser Gly Pro Glu Arg Ser Ile Ser Gly
          115          120          125
Ser Lys Lys Pro Thr Asn Asp Ser Asn Pro Ser Arg Arg Thr Val Ser
          130          135          140
Gly Thr Cys Gly Pro Gly Gln Pro Ala Ser Ser Ser Gly Gly Pro Gly
          145          150          155          160
Arg Pro Ile Ser Gly Ser Val Ser Ser Ala Arg Pro Leu Gly Ser Ser
          165          170          175
Arg Gly Pro Gly Arg Pro Val Ser Ser Pro His Glu Leu Arg Arg Pro
          180          185          190
Val Ser Gly Leu Gly Pro Pro Gly Arg Ser Val Ser Gly Pro Gly Arg
          195          200          205
Ser Ile Ser Gly Ser Ile Pro Ala Gly Arg Thr Val Ser Asn Ser Val
          210          215          220
Pro Gly Arg Pro Val Ser Ser Leu Gly Pro Gly Gln Thr Val Ser Ser
          225          230          235          240
Ser Gly Pro Thr Ile Lys Pro Lys Cys Thr
          245          250

```

<210> 959  
 <211> 48  
 <212> Amino acid  
 <213> Homo sapiens

```

          <400> 959
Arg Gly Lys Gly Ile Thr Pro Arg Tyr His Leu Cys Ile Ser Asp Pro

```

```

      1             5             10             15
His Asn Leu Lys Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser
      20             25             30
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp
      35             40             45             48

```

<210> 960  
 <211> 63  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 960
Val Val Ala Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu
      1             5             10             15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly
      20             25             30
Glu Val Ala Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala
      35             40             45
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met
      50             55             60             63

```

<210> 961  
 <211> 59  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 961
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr
      1             5             10             15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro
      20             25             30
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val
      35             40             45
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu
      50             55             59

```

<210> 962  
 <211> 140  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 962
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg
      1             5             10             15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu
      20             25             30
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro

```

```

      35      40      45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln
      50      55      60
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg
      65      70      75      80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His
      85      90      95
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser
      100      105      110
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu
      115      120      125
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp
      130      135      140

```

&lt;210&gt; 963

&lt;211&gt; 153

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 963

```

Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln
  1      5      10      15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser
      20      25      30
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys
      35      40      45
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln
      50      55      60
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys
      65      70      75      80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu
      85      90      95
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe
      100      105      110
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr
      115      120      125
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe
      130      135      140
Lys Gly Leu Asn Val Leu Lys Gln Cys
      145      150      153

```

&lt;210&gt; 964

&lt;211&gt; 54

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 964

```

Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala
  1      5      10      15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly
      20      25      30
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys
      35      40      45
Gly Lys Glu Ile Val Lys

```

50

54

&lt;210&gt; 965

&lt;211&gt; 39

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 965

Gly	Phe	Val	Phe	Leu	Pro	Gly	Pro	Met	Ser	Val	Gly	Leu	Asp	Phe	Ser
1				5					10					15	
Leu	Pro	Gly	Met	Glu	His	Val	Tyr	Gly	Ile	Pro	Glu	His	Ala	Asp	Asn
			20					25					30		
Leu	Arg	Leu	Lys	Val	Thr	Glu									
		35				39									

&lt;210&gt; 966

&lt;211&gt; 130

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 966

Gly	Ser	Glu	Cys	Gln	Gly	Thr	Asp	Leu	Asp	Thr	Arg	Asn	Cys	Thr	Ser
1				5					10					15	
Asp	Leu	Cys	Val	His	Thr	Ala	Ser	Gly	Pro	Glu	Asp	Val	Ala	Leu	Tyr
			20					25					30		
Val	Gly	Leu	Ile	Ala	Val	Ala	Val	Cys	Leu	Val	Leu	Leu	Leu	Leu	Val
		35					40					45			
Leu	Ile	Leu	Val	Tyr	Cys	Arg	Lys	Lys	Glu	Gly	Leu	Asp	Ser	Asp	Val
	50					55					60				
Ala	Asp	Ser	Ser	Ile	Leu	Thr	Ser	Gly	Phe	Gln	Pro	Val	Ser	Ile	Lys
	65				70					75				80	
Pro	Ser	Lys	Ala	Asp	Asn	Pro	His	Leu	Leu	Thr	Ile	Gln	Pro	Asp	Leu
				85					90					95	
Ser	Thr	Thr	Thr	Thr	Thr	Tyr	Gln	Gly	Ser	Leu	Cys	Pro	Arg	Gln	Asp
			100					105					110		
Gly	Pro	Ser	Pro	Lys	Phe	Gln	Leu	Thr	Asn	Gly	His	Leu	Leu	Ser	Pro
		115					120					125			
Leu	Gly														
	130														

&lt;210&gt; 967

&lt;211&gt; 259

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 967

Leu	Ile	Tyr	Asn	Glu	Asp	Met	Ile	Cys	Trp	Ile	Glu	Ser	Arg	Glu	Ser
1				5					10					15	
Ser	Asn	Gln	Leu	Lys	Cys	Ile	Gln	Ile	Thr	Lys	Ala	Gly	Gly	Leu	Thr

```

      20      25      30
Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln
      35      40      45
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val
      50      55      60
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr
      65      70      75      80
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro
      85      90      95
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val
      100      105      110
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser
      115      120      125
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu
      130      135      140
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr
      145      150      155      160
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His
      165      170      175
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser
      180      185      190
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile
      195      200      205
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln
      210      215      220
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro
      225      230      235      240
Tyr Gly Met Pro Gly Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser
      245      250      255
Tyr Thr Lys
      259

```

```

<210> 968
<211> 161
<212>Amino acid
<213> Homo sapiens

```

```

<400> 968
Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly
  1      5      10      15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln
      20      25      30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser
      35      40      45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn
      50      55      60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala
      65      70      75      80
Ser Val Arg Ala Thr His Pro Ile Pro Ala Ala Cys Gly Ile Tyr Tyr
      85      90      95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile
      100      105      110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp
      115      120      125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser
      130      135      140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val
      145      150      155      160
Ile

```

161

<210> 969  
 <211> 76  
 <212> Amino acid  
 <213> Homo sapiens

<400> 969  
 Phe Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val  
 1 5 10 15  
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr  
 20 25 30  
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro  
 35 40 45  
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His  
 50 55 60  
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser  
 65 70 75 76

<210> 970  
 <211> 267  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> X = any amino acid or stop code

<400> 970  
 Gln Leu Ser Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe  
 1 5 10 15  
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys Ser Thr Ile  
 20 25 30  
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val  
 35 40 45  
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val  
 50 55 60  
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly  
 65 70 75 80  
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe  
 85 90 95  
 Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser  
 100 105 110  
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser Gln Leu Pro  
 115 120 125  
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu  
 130 135 140  
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu  
 145 150 155 160  
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr  
 165 170 175  
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys  
 180 185 190

```

Val Gln Thr Val Ala Ile Ile Gly Pro Ile Phe Gly Phe Leu Leu Gly
      195      200      205
Ser Leu Cys Ala Lys Leu Tyr Val Asp Ile Gly Phe Val Asn Leu Asp
      210      215      220
His Phe Xaa Val Ser Ala Gln Leu Gly Thr Arg Lys Gly Val Leu Val
      225      230      235      240
Cys Leu Val Phe Cys Leu Leu Cys Gln Ser Ile Gly Arg Arg Leu Ser
      245      250      255
Glu Glu His His His Ser Asp Arg Glu Lys Gly
      260      265      267

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<210> 971
<211> 282
<212>Amino acid
<213> Homo sapiens

```

```

<400> 971
Gln Pro Ala Gly Arg Val Glu Ala Phe Cys Lys Phe His Met Trp Ala
  1      5      10      15
Glu Gly Met Thr Ser Leu Met Lys Ala Ala Leu Asp Leu Thr Tyr Pro
      20      25      30
Ile Thr Ser Met Phe Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser
      35      40      45
Val Phe Lys Asp Gln Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala
      50      55      60
Ile Thr Thr Asp Ile Thr Ala Ser Ala Met Arg Val His Thr Asp Gly
      65      70      75      80
Ser Leu Trp Arg Tyr Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met
      85      90      95
Pro Pro Leu Cys Asp Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly
      100      105      110
Tyr Ile Asn Asn Leu Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys
      115      120      125
Val Val Ile Ala Ile Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr
      130      135      140
Asn Tyr Gly Asp Ala Leu Ser Gly Trp Trp Leu Leu Trp Lys Arg Trp
      145      150      155      160
Asn Pro Leu Ala Thr Lys Val Lys Val Leu Asn Met Ala Glu Ile Gln
      165      170      175
Thr Arg Leu Ala Tyr Val Cys Cys Val Arg Gln Leu Glu Val Val Lys
      180      185      190
Ser Ser Asp Tyr Cys Glu Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser
      195      200      205
Thr Leu Asp Phe Gly Lys Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln
      210      215      220
His Gly Arg Thr Val Phe Asp Ile Trp Gly Arg Ser Gly Val Leu Glu
      225      230      235      240
Lys Met Leu Arg Asp Gln Gln Gly Pro Ser Lys Lys Pro Ala Ser Ala
      245      250      255
Val Leu Thr Cys Pro Asn Ala Ser Phe Thr Asp Leu Ala Glu Ile Val
      260      265      270
Ser Arg Ile Glu Pro Ala Lys Pro Ala Met
      275      280      282

```

```

<210> 972
<211> 167
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 972

```

Leu Trp Val Ile Met Phe Val Ser Tyr Leu Ile Leu Thr Leu Leu His
 1           5           10           15
Val Gln Thr Ala Val Leu Ala Arg Pro Gly Gly Glu Ser Ile Gly Cys
          20           25           30
Asp Asp Tyr Leu Gly Ser Asp Lys Val Val Asp Lys Cys Gly Val Cys
          35           40           45
Gly Gly Asp Asn Thr Gly Cys Gln Val Val Ser Gly Val Phe Lys His
          50           55           60
Ala Leu Thr Ser Leu Gly Tyr His Arg Val Val Glu Ile Pro Glu Gly
          65           70           75           80
Ala Thr Lys Ile Asn Ile Thr Glu Met Tyr Lys Ser Asn Asn Tyr Leu
          85           90           95
Ala Leu Arg Ser Arg Ser Gly Arg Ser Ile Ile Asn Gly Asn Trp Ala
          100          105          110
Ile Asp Arg Pro Gly Lys Tyr Glu Gly Gly Thr Met Phe Thr Tyr
          115          120          125
Lys Arg Pro Asn Glu Ile Ser Ser Thr Ala Gly Glu Ser Phe Leu Ala
          130          135          140
Glu Gly Pro Thr Asn Glu Ile Leu Asp Val Tyr Val Ser Leu Asp Val
          145          150          155          160
Ser Gly Leu Phe Phe Gly Phe
          165          167

```

&lt;210&gt; 973

&lt;211&gt; 140

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 973

```

Ile Ser Gly Gly Thr Arg Ser Ala Gly Pro Leu Arg Arg Asn Tyr Asn
 1           5           10           15
Phe Ile Ala Ala Val Val Glu Lys Val Ala Pro Ser Val Val His Val
          20           25           30
Gln Leu Trp Gly Arg Asn Gln Gln Trp Ile Glu Val Val Leu Gln Asn
          35           40           45
Gly Ala Arg Tyr Glu Ala Val Val Lys Asp Ile Asp Leu Lys Leu Asp
          50           55           60
Leu Ala Val Ile Lys Ile Glu Ser Asn Ala Glu Leu Pro Val Leu Met
          65           70           75           80
Leu Gly Arg Ser Ser Asp Leu Arg Ala Gly Glu Phe Val Val Ala Leu
          85           90           95
Gly Ser Pro Phe Ser Leu Gln Asn Thr Ala Thr Ala Gly Ile Val Ser
          100          105          110
Thr Lys Gln Arg Gly Gly Lys Glu Leu Gly Met Lys Asp Ser Asp Met
          115          120          125
Asp Tyr Val Gln Ile Asp Ala Thr Ile Asn Tyr Gly
          130          135          140

```

&lt;210&gt; 974

&lt;211&gt; 286

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



&lt;400&gt; 974

```

Pro Arg Val Arg Glu Leu Lys Glu Ile Leu Asp Arg Lys Gly His Phe
 1           5           10           15
Ser Glu Asn Glu Thr Arg Trp Ile Ile Gln Ser Leu Ala Ser Ala Ile
          20           25           30
Ala Tyr Leu His Asn Asn Asp Ile Val His Arg Asp Leu Lys Leu Glu
          35           40           45
Asn Ile Met Val Lys Ser Ser Leu Ile Asp Asp Asn Asn Glu Ile Asn
          50           55           60
Leu Asn Ile Lys Val Thr Asp Phe Gly Leu Ala Val Lys Lys Gln Ser
          65           70           75           80
Arg Ser Glu Ala Met Leu Gln Ala Thr Cys Gly Thr Pro Ile Tyr Met
          85           90           95
Ala Pro Glu Val Ile Ser Ala His Asp Tyr Ser Gln Gln Cys Asp Ile
          100          105          110
Trp Ser Ile Gly Val Val Met Tyr Met Leu Leu Arg Gly Glu Pro Pro
          115          120          125
Phe Leu Ala Ser Ser Glu Glu Lys Leu Phe Glu Leu Ile Arg Lys Gly
          130          135          140
Glu Leu His Phe Glu Asn Ala Val Trp Asn Ser Ile Ser Asp Cys Ala
145          150          155          160
Lys Ser Val Leu Lys Gln Leu Met Lys Val Asp Pro Ala His Arg Ile
          165          170          175
Thr Ala Lys Glu Leu Leu Asp Asn Gln Trp Leu Thr Gly Asn Lys Leu
          180          185          190
Ser Ser Val Arg Pro Thr Asn Val Leu Glu Met Met Lys Glu Trp Lys
          195          200          205
Asn Asn Pro Glu Ser Val Glu Glu Asn Thr Thr Glu Glu Lys Asn Lys
          210          215          220
Pro Ser Thr Glu Glu Lys Leu Lys Ser Tyr Gln Pro Trp Gly Asn Val
225          230          235          240
Pro Glu Thr Asn Tyr Thr Ser Asp Glu Glu Glu Glu Lys Gln Val Gly
          245          250          255
Arg Ile Ile Ala Ala Phe Leu Pro Ser Val Lys Tyr Pro His His Thr
          260          265          270
Trp Asn Ile Phe Leu Gln Ile Cys Leu Phe Val Val Ser Leu
          275          280          285 286

```

&lt;210&gt; 975

&lt;211&gt; 155

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 975

```

Leu Ser Ile Ser Val Ser Asp Val Ser Leu Ser Asp Glu Gly Gln Tyr
 1           5           10           15
Thr Cys Ser Leu Phe Thr Met Pro Val Lys Thr Ser Lys Ala Tyr Leu
          20           25           30
Thr Val Leu Gly Val Pro Glu Lys Pro Gln Ile Ser Gly Phe Ser Ser
          35           40           45
Pro Val Met Glu Gly Asp Leu Met Gln Leu Thr Cys Lys Thr Ser Gly
          50           55           60
Ser Lys Pro Ala Ala Asp Ile Arg Trp Phe Lys Asn Asp Lys Glu Ile
          65           70           75           80

```

```
<210> 976
<211> 137
<212> Amino acid
<213> Homo sapiens
```

```
<210> 977
<211> 246
<212> Amino acid
<213> Homo sapiens
```

538

Ala Ala Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala  
 100 105 110  
 Thr Lys Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser  
 115 120 125  
 Cys Lys Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp  
 130 135 140  
 Leu Pro Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr  
 145 150 155 160  
 Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp  
 165 170 175  
 Ala Ser Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg  
 180 185 190  
 Tyr Cys Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala  
 195 200 205  
 Gln His Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys  
 210 215 220  
 Gly Ala Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu  
 225 230 235 240  
 His Tyr Lys Val Asp Val  
 245 246

<210> 978  
 <211> 203  
 <212> Amino acid  
 <213> Homo sapiens

<400> 978  
 Glu Ser Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys  
 1 5 10 15  
 Glu Gly Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu  
 20 25 30  
 Gly Ile Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Glu Gly Glu  
 35 40 45  
 Asp Val Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser  
 50 55 60  
 Thr Cys Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu  
 65 70 75 80  
 Ser Ala Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu  
 85 90 95  
 Ala Glu Ala Gly Ala Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp  
 100 105 110  
 Ser Met Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser  
 115 120 125  
 Ser Ala Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly  
 130 135 140  
 Lys Asp Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr  
 145 150 155 160  
 Ser Ala Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp  
 165 170 175  
 Thr Thr Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val  
 180 185 190  
 Ser Gly Glu Val Pro Glu Cys Glu Val Ala His  
 195 200 203

<210> 979  
 <211> 94  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 979

```

Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala
 1           5           10           15
Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala
           20           25           30
Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu
           35           40           45
Leu Leu Lys Met Gly Gln His Gly Asn Asn Val Gln Trp Arg Ala Leu
           50           55           60
Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu
           65           70           75           80
Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe
           85           90           94

```

&lt;210&gt; 980

&lt;211&gt; 226

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

```

Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg
 1           5           10           15
Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile
           20           25           30
Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Gly
           35           40           45
Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His
           50           55           60
Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp
           65           70           75           80
Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp
           85           90           95
Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys
           100           105           110
Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys
           115           120           125
Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu
           130           135           140
Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr
           145           150           155           160
Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
           165           170           175
Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
           180           185           190
Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly
           195           200           205
Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys
           210           215           220
Asp Phe
225 226

```

&lt;210&gt; 981

&lt;211&gt; 163

<212>Amino acid  
<213> Homo sapiens

<400> 981

```

Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser
 1          5          10          15
Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu
          20          25          30
Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp
          35          40          45
Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp
          50          55          60
His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val
 65          70          75          80
Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro
          85          90          95
Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp
          100          105          110
Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln
          115          120          125
Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val
          130          135          140
Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys
145          150          155          160
Pro Ser Val
          163

```

<210> 982  
<211> 327  
<212>Amino acid  
<213> Homo sapiens

<400> 982

```

Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp
 1          5          10          15
Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe
          20          25          30
Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro
          35          40          45
Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser
          50          55          60
Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Gln Leu Leu Glu
 65          70          75          80
Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln
          85          90          95
Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp
          100          105          110
Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val
          115          120          125
Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr
          130          135          140
Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr
145          150          155          160
Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser
          165          170          175

```

Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu  
 180 185 190  
 Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu  
 195 200 205  
 Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Ile Thr  
 210 215 220  
 Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu  
 225 230 235 240  
 Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu  
 245 250 255  
 Ala Tyr Lys Arg Lys Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser  
 260 265 270  
 Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His  
 275 280 285  
 Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr  
 290 295 300  
 Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala  
 305 310 315 320  
 Asp Pro Leu Arg Pro His Gly  
 325 327

<210> 983  
 <211> 110  
 <212>Amino acid  
 <213> Homo sapiens

<400> 983  
 Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser  
 1 5 10 15  
 Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr  
 20 25 30  
 Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln  
 35 40 45  
 Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu  
 50 55 60  
 Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn  
 65 70 75 80  
 Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys  
 85 90 95  
 Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro  
 100 105 110

<210> 984  
 <211> 80  
 <212>Amino acid  
 <213> Homo sapiens

<400> 984  
 Ala Pro Leu Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly  
 1 5 10 15  
 Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly  
 20 25 30  
 Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr  
 35 40 45

Val Gln Val Thr Ser Ala Leu Ala Pro Ile Pro Gly Ser Gly Gly Trp  
 50 55 60  
 Gly Gly Gly Arg Arg Gly Ala Gln Leu Thr Ser Gly Trp Thr Leu His  
 65 70 75 80

<210> 985  
 <211> 235  
 <212>Amino acid  
 <213> Homo sapiens

<400> 985  
 Pro His Ile Ile Gly Ala Glu Asp Asp Asp Phe Gly Thr Glu His Glu  
 1 5 10 15  
 Gln Ile Asn Gly Gln Cys Ser Cys Phe Gln Ser Ile Glu Leu Lys  
 20 25 30  
 Ser Arg Pro Ala His Leu Ala Val Phe Leu Arg His Val Val Ser Gln  
 35 40 45  
 Phe Asp Pro Ala Thr Leu Leu Cys Tyr Leu Tyr Ser Asp Leu Tyr Lys  
 50 55 60  
 His Thr Asn Ser Lys Glu Thr Arg Arg Ile Phe Leu Glu Phe His Gln  
 65 70 75 80  
 Phe Phe Leu Asp Arg Ser Ala His Leu Lys Val Ser Val Pro Asp Glu  
 85 90 95  
 Met Ser Ala Asp Leu Glu Lys Arg Arg Pro Glu Leu Ile Pro Glu Asp  
 100 105 110  
 Leu His Arg His Tyr Ile Gln Thr Met Gln Glu Arg Val His Pro Glu  
 115 120 125  
 Val Gln Arg His Leu Glu Asp Phe Arg Gln Lys Arg Ser Met Gly Leu  
 130 135 140  
 Thr Leu Ala Glu Ser Glu Leu Thr Lys Leu Asp Ala Glu Arg Asp Lys  
 145 150 155 160  
 Asp Arg Leu Thr Leu Glu Lys Glu Arg Thr Cys Ala Glu Gln Ile Val  
 165 170 175  
 Ala Lys Ile Glu Glu Val Leu Met Thr Ala Gln Ala Val Glu Glu Asp  
 180 185 190  
 Lys Ser Ser Thr Met Gln Tyr Val Ile Leu Met Tyr Met Lys His Leu  
 195 200 205  
 Gly Val Lys Val Lys Glu Pro Arg Asn Leu Glu His Lys Arg Gly Arg  
 210 215 220  
 Ile Gly Phe Leu Pro Lys Ile Lys Gln Ser Met  
 225 230 235

<210> 986  
 <211> 140  
 <212>Amino acid  
 <213> Homo sapiens

<400> 986  
 Ser Pro Gly Thr Gly Arg Gly Pro Gly Pro Thr Ser Phe Val Cys Leu  
 1 5 10 15  
 Pro Thr Pro Gln Cys Pro Phe Ile Asp Asp Phe Ile Leu Ala Leu His  
 20 25 30

Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile  
           35                          40                          45  
 Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro  
           50                          55                          60  
 Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr  
           65                          70                          75                          80  
 Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val  
                           85                          90                          95  
 Val Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro  
                           100                          105                          110  
 Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser  
           115                          120                          125  
 Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala  
           130                          135                          140

&lt;210&gt; 987

&lt;211&gt; 242

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 987

His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu  
   1                          5                          10                          15  
 Phe Leu Thr Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln  
           20                          25                          30  
 Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly  
           35                          40                          45  
 Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys  
           50                          55                          60  
 Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser  
           65                          70                          75                          80  
 Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala  
                           85                          90                          95  
 Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu  
                           100                          105                          110  
 Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys  
           115                          120                          125  
 His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val  
           130                          135                          140  
 Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln  
   145                          150                          155                          160  
 Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys  
                           165                          170                          175  
 Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala  
                           180                          185                          190  
 Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser  
           195                          200                          205  
 Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg  
           210                          215                          220  
 Leu His Gly Val Glu Leu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys  
   225                          230                          235                          240  
 Arg Ala  
   242

&lt;210&gt; 988

&lt;211&gt; 154

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



&lt;400&gt; 988

```

Cys Cys Arg Trp Ile Asp Cys Phe Ala Leu Tyr Asp Gln Gln Glu Glu
 1           5           10           15
Leu Val Arg His Ile Glu Lys Val His Ile Asp Gln Arg Lys Gly Glu
          20           25           30
Asp Phe Thr Cys Phe Trp Ala Gly Cys Pro Arg Arg Tyr Lys Pro Phe
          35           40           45
Asn Ala Arg Tyr Lys Leu Leu Ile His Met Arg Val His Ser Gly Glu
          50           55           60
Lys Pro Asn Lys Cys Thr Phe Glu Gly Cys Glu Lys Ala Phe Ser Arg
          65           70           75           80
Leu Glu Asn Leu Lys Ile His Leu Arg Ser His Thr Gly Glu Lys Pro
          85           90           95
Tyr Leu Cys Gln His Pro Gly Cys Gln Lys Ala Phe Ser Asn Ser Ser
          100          105          110
Asp Arg Ala Lys His Gln Arg Thr His Leu Asp Thr Lys Pro Tyr Ala
          115          120          125
Cys Gln Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu
          130          135          140
Arg Lys His Val Lys Ala His Ser Ser Lys
145           150           154

```

&lt;210&gt; 989

&lt;211&gt; 65

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

```

Leu Pro Leu Leu Trp Thr Leu Ser Asp Phe Gly Gly Thr Met Asp Gln
 1           5           10           15
Ser Gly Met Glu Ile Pro Val Thr Leu Ile Ile Lys Ala Pro Asn Gln
          20           25           30
Lys Tyr Ser Asp Gln Thr Ile Ser Cys Phe Leu Asn Trp Thr Val Gly
          35           40           45
Lys Leu Lys Thr His Leu Ser Asn Val Tyr Pro Ser Lys Pro Val Ser
          50           55           60
Val
65

```

&lt;210&gt; 990

&lt;211&gt; 297

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 990

```

Ala Gly Thr Arg Met Cys Val Val Ala Ala Ala Glu Glu Leu Val Cys
 1           5           10           15
Gly Ala Arg Gly Leu Trp Met Arg Arg Thr Arg Arg Pro Arg Phe Val
          20           25           30

```

```

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn
      35              40              45
Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr
      50              55              60
Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr
      65              70              75              80
His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu
      85              90              95
Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val
      100             105             110
Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp
      115             120             125
His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp
      130             135             140
Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys
      145             150             155             160
Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe
      165             170             175
Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val
      180             185             190
Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val
      195             200             205
Gly Met His Ser Leu Gly Glu Glu Val Arg Leu His Leu Asn Ala Glu
      210             215             220
Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp
      225             230             235             240
Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu
      245             250             255
Tyr Leu Gly Lys Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala
      260             265             270
Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val
      275             280             285
Asp Pro Gly Glu Lys Cys Tyr Ile Ala
      290             295             297

```

&lt;210&gt; 991

&lt;211&gt; 207

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 991

```

Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp
  1              5              10              15
Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly
      20              25              30
Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala
      35              40              45
Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp
      50              55              60
Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg
      65              70              75              80
Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg
      85              90              95
Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala
      100             105             110
Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr
      115             120             125
Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys
      130             135             140

```

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val  
 145 150 155 160  
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser  
 165 170 175  
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg  
 180 185 190  
 Gly Phe Gln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu  
 195 200 205 207

<210> 992  
 <211> 184  
 <212> Amino acid  
 <213> Homo sapiens

<400> 992  
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro  
 1 5 10 15  
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val  
 20 25 30  
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp  
 35 40 45  
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val  
 50 55 60  
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp  
 65 70 75 80  
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala  
 85 90 95  
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg  
 100 105 110  
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu  
 115 120 125  
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser  
 130 135 140  
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val  
 145 150 155 160  
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly  
 165 170 175  
 Lys Leu Pro Asp Pro Val Lys Glu  
 180 184

<210> 993  
 <211> 144  
 <212> Amino acid  
 <213> Homo sapiens

<400> 993  
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly  
 1 5 10 15  
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro  
 20 25 30  
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly  
 35 40 45  
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser  
 50 55 60

```

Pro Lys Val Ile Ser Thr Pro Pro Pro Pro Ile Phe Pro Ile Ser Lys
 65              70              75              80
Glu Val Gly Pro Ile Pro Ile Lys His Phe Pro Lys His Val Ala Asn
              85              90              95
Leu His Ala Ser Arg Gly Phe Thr Glu Lys Phe Glu Thr Leu Lys Lys
              100              105              110
Phe Tyr Gln Glu Gly Gln Ser Cys Thr Val Asp Leu Gly Ile Thr Ala
              115              120              125
Asn Ser Ser Asn His Pro Asp Asn Arg His Arg Asn Arg Ser Leu Ile
 130              135              140              144

```

```

<210> 994
<211> 147
<212>Amino acid
<213> Homo sapiens

```

```

<400> 994
Ser Phe Pro Asp Arg Thr Ala Ser Leu Val Leu Leu Ser Val Pro Val
 1              5              10              15
Gly Gln Ala Gly Met Gln Gln Arg Gly Leu Ala Ile Val Ala Leu Ala
              20              25              30
Val Cys Ala Ala Leu His Ala Ser Pro Ala Ile Leu Pro Ile Ala Ser
              35              40              45
Ser Cys Cys Thr Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu
 50              55              60
Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu
 65              70              75              80
Ala Ala Val Ile Leu His Val Lys Arg Arg Arg Ile Cys Val Ser Pro
              85              90              95
His Asn His Thr Val Lys Gln Trp Met Lys Val Gln Ala Ala Lys Lys
              100              105              110
Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys His His Gly Lys Arg
              115              120              125
Asn Ser Asn Arg Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys
 130              135              140
Thr Pro Tyr
145              147

```

```

<210> 995
<211> 245
<212>Amino acid
<213> Homo sapiens

```

```

<400> 995
Phe Glu Gln Pro Gly Asn Pro Gly Asp Pro Arg Val Arg Thr Pro Pro
 1              5              10              15
Pro Trp Gly Pro His Phe Phe Ala Leu Ile Pro Ser Ser Pro Lys Glu
              20              25              30
Val Pro Ala Thr Pro Ser Ser Arg Asp Pro Ile Ala Pro Thr Ala
              35              40              45
Thr Leu Leu Ser Lys Lys Thr Pro Ala Thr Leu Ala Pro Lys Glu Ala
 50              55              60

```

```

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala
 65              70              75              80
Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala
              85              90              95
Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser
              100              105              110
Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys
              115              120              125
Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly
              130              135              140
Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr
145              150              155              160
Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys
              165              170              175
Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys
              180              185              190
Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu
              195              200              205
Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys
              210              215              220
Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys
225              230              235              240
Asn Gly Ser Lys Gly
              245

```

```

<210> 996
<211> 25
<212>Amino acid
<213> Homo sapiens

```

```

<400> 996
Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro
 1              5              10              15
Val Ile Pro Val Leu Trp Glu Ala Glu
              20              25

```

```

<210> 997
<211> 56
<212>Amino acid
<213> Homo sapiens

```

```

<400> 997
Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
 1              5              10              15
Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
              20              25              30
Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu
              35              40              45
Phe Leu Lys Pro Leu Leu Leu Leu
              50              55 56

```

```

<210> 998
<211> 198

```

<212>Amino acid  
<213> Homo sapiens

<400> 998  
 Trp Met Arg Ala Pro Met Leu Gln Lys Gln Gln Ala Pro Arg Met Asp  
   1                  5                  10                  15  
 Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn  
           20                  25                  30  
 Asn Gln Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu  
           35                  40                  45  
 Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys  
           50                  55                  60  
 Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile  
           65                  70                  75                  80  
 Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu  
                   85                  90                  95  
 Leu Leu Asn Ala Glu Leu Glu Glu Lys Met Met Gln Glu Ala Glu Lys  
                  100                 105                 110  
 Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met  
          115                 120                 125  
 Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr  
          130                 135                 140  
 Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu  
          145                 150                 155                 160  
 Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys  
                  165                 170                 175  
 Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu  
                  180                 185                 190  
 Thr Leu Lys Glu Arg Cys  
          195                 198

<210> 999  
 <211> 79  
 <212>Amino acid  
 <213> Homo sapiens

<400> 999  
 Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu  
   1                  5                  10                  15  
 Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu  
           20                  25                  30  
 Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser  
           35                  40                  45  
 Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu  
           50                  55                  60  
 Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val  
           65                  70                  75                  79

<210> 1000  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1000

```

Val Thr Thr Thr Thr His Ser Val Gly Arg Gly His Glu Leu Gln Leu
 1          5          10          15
Leu Asn Glu Glu Leu Arg Asn Ile Glu Leu Glu Cys Gln Asn Ile Met
          20          25          30
Gln Ala His Arg Leu Gln Lys Val Thr Asp Gln Tyr Gly Asp Ile Trp
          35          40          45
Thr Leu His Asp Gly Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Met
          50          55          60
Gln Arg Gly Lys Leu Asp Asp Ile Met Glu His Pro Glu Lys Ser Asp
          65          70          75          80
Lys Asp Ser Ser Ser Ala Tyr Asn Thr Ala Glu Ser Cys Arg Ser Thr
          85          90          95
Pro Leu Thr Val Asp Arg Ser Pro Asp Ser Ser Leu Pro Arg Val Ile
          100          105          110
Asn Leu Thr Asn Lys Lys Asn Leu Arg Ser Thr Met Ala Ala Thr Gln
          115          120          125
Ser Ser Ser Gly Gln Ser Ser Lys Glu Ser Thr Ser Thr Lys Ala Lys
          130          135          140
Thr Thr Glu Gln Gly Cys Ser Ala Glu Ser Lys Glu Lys Val Leu Glu
          145          150          155          160
Gly Ser Lys Leu Pro Asp Gln Glu Lys Ala Val Ser Glu His Ile Pro
          165          170          175
Tyr Leu Ser Pro Tyr His Ser Ser Ser Tyr Arg Tyr Ala Asn Ile Pro
          180          185          190
Ala His Ala Arg His Tyr Gln Ser Tyr Met Gln Leu Ile Gln
          195          200          205 206

```

&lt;210&gt; 1001

&lt;211&gt; 138

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1001

```

Val Trp Gly Cys Leu Ala Thr Val Ser Thr His Lys Lys Ile Gln Gly
 1          5          10          15
Leu Pro Phe Gly Asn Cys Leu Pro Val Ser Asp Gly Pro Phe Asn Asn
          20          25          30
Ser Thr Gly Ile Pro Phe Phe Tyr Met Thr Ala Lys Asp Pro Val Val
          35          40          45
Ala Asp Leu Met Lys Asn Pro Met Ala Ser Leu Met Leu Pro Glu Ser
          50          55          60
Glu Gly Glu Phe Cys Arg Lys Asn Ile Val Asp Pro Glu Asp Pro Arg
          65          70          75          80
Cys Val Gln Leu Thr Leu Thr Gly Gln Met Ile Ala Val Ser Pro Glu
          85          90          95
Glu Val Glu Phe Ala Lys Gln Ala Met Phe Ser Arg His Pro Gly Met
          100          105          110
Arg Lys Trp Pro Arg Gln Tyr Glu Trp Phe Phe Met Lys Met Arg Ile
          115          120          125
Glu His Ile Trp Leu Gln Lys Trp Tyr Gly
          130          135          138

```

&lt;210&gt; 1002

&lt;211&gt; 133

<212>Amino acid  
<213> Homo sapiens

<400> 1002

```

Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro
 1          5          10          15
Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Gln Lys Leu
          20          25          30
Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp
          35          40          45
Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu
          50          55          60
Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val
          65          70          75          80
Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile
          85          90          95
Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn
          100          105          110
Leu Ala Gly Asn Asn Leu Ile Ala Met Glu Gln Ile Asn Ser Cys Thr
          115          120          125
Ala Leu Gln His Leu
          130          133

```

<210> 1003

<211> 276

<212>Amino acid

<213> Homo sapiens

<400> 1003

```

Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr
 1          5          10          15
Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr
          20          25          30
Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe
          35          40          45
Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His
          50          55          60
Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala
          65          70          75          80
Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln
          85          90          95
Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His
          100          105          110
Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile
          115          120          125
Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp
          130          135          140
Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu
          145          150          155          160
Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val
          165          170          175
Leu Ser Gln Glu Gly Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala
          180          185          190
Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro
          195          200          205

```



Val Leu Lys Thr Ala Leu Pro Glu Gly Leu Gly Pro Tyr Cys Ala Glu  
 210 215 220  
 Thr His Arg Arg His Thr Leu Phe Cys Gly Thr Leu Ile Leu His Ala  
 225 230 235 240  
 Arg Ala Tyr Val Gly Pro His Val Leu Ala Val Val Thr Arg Thr Gly  
 245 250 255  
 Met Ser Arg Glu Ala Gly Leu Glu Arg Asp Pro Gly Ser Ala Pro Leu  
 260 265 270  
 Lys Arg Trp Ser  
 275 276

<210> 1004  
 <211> 222  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1004  
 Phe Val Gly Gly Gly Leu His Leu His Leu Cys Leu Leu Leu Cys Phe  
 1 5 10 15  
 Met Leu Pro Glu Asp Ala Ala Met Ala Val Leu Thr Ala Ser Asn His  
 20 25 30  
 Val Ser Asn Val Thr Val Asn Tyr Asn Ile Thr Val Glu Arg Met Asn  
 35 40 45  
 Arg Met Gln Gly Leu Arg Val Ser Thr Val Pro Ala Val Leu Ser Pro  
 50 55 60  
 Asn Ala Thr Leu Ala Leu Thr Ala Gly Val Leu Val Asp Ser Ala Val  
 65 70 75 80  
 Glu Val Ala Phe Leu Trp Thr Phe Gly Asp Gly Glu Gln Ala Leu His  
 85 90 95  
 Gln Phe Gln Pro Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser  
 100 105 110  
 Val Ala Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala  
 115 120 125  
 Pro Gly Glu Tyr Val Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn  
 130 135 140  
 Arg Thr Gln Gln Val Leu Ile Arg Ser Gly Arg Val Pro Ile Val Ser  
 145 150 155 160  
 Leu Glu Cys Val Ser Cys Lys Ala Gln Ala Val Tyr Glu Val Ser Arg  
 165 170 175  
 Ser Ser Tyr Val Tyr Leu Glu Gly Arg Cys Leu Asn Cys Ser Ser Gly  
 180 185 190  
 Ser Lys Arg Gly Arg Trp Ala Ala Arg Thr Phe Ser Asn Lys Thr Leu  
 195 200 205  
 Val Leu Asp Glu Thr Thr Thr Ser Thr Gly Ser Ala Ser Met  
 210 215 220 222

<210> 1005  
 <211> 363  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1005  
 Pro Glu Phe Leu Gly Arg Leu Phe Arg Gly Lys Ala Ala Thr Leu His  
 1 5 10 15

```

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln
      20      25      30
Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp
      35      40      45
Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn
      50      55      60
Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn
      65      70      75      80
His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr
      85      90      95
Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn
      100     105     110
Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys
      115     120     125
Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn
      130     135     140
Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro
      145     150     155     160
Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro
      165     170     175
Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu
      180     185     190
Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp
      195     200     205
Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu
      210     215     220
Thr Asp Lys Glu Lys Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys
      225     230     235     240
Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met
      245     250     255
His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile
      260     265     270
Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro
      275     280     285
Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val
      290     295     300
Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Lys Arg Arg Ala Pro
      305     310     315     320
Ala Pro Pro Pro Pro Gln Pro Pro Pro Pro Ser Pro Leu Ile Pro Asn
      325     330     335
Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys
      340     345     350
Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe
      355     360     363

```

&lt;210&gt; 1006

&lt;211&gt; 95

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(95)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1006

```

Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe
  1      5      10      15
Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

```

```

      20      25      30
Ala Pro Pro Leu Pro Ala Pro Phe Phe Tyr Phe Leu Phe Leu Val
      35      40      45
Glu Leu Gly Phe His His Ile Gly Xaa Ala Gly Leu Glu Leu Thr Ser
      50      55      60
Thr Asp Leu Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Met
      65      70      75      80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu
      85      90      95

```

<210> 1007  
 <211> 151  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1007
Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu
  1      5      10      15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr
      20      25      30
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu
      35      40      45
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu
      50      55      60
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg
      65      70      75      80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Phe Leu Tyr Pro Gln Thr
      85      90      95
Gln Val Leu Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn
      100      105      110
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu
      115      120      125
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu
      130      135      140
Gly Val Thr Gln Phe Ser Pro
      145      150 151

```

<210> 1008  
 <211> 64  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(64)  
 <223> X = any amino acid or stop code

```

      <400> 1008
Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu
  1      5      10      15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr
      20      25      30
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile
      35      40      45

```

Pro Ser Ser Trp Thr Gly Arg Ile Asn Thr Val Lys Met Thr Ile Leu  
 50 55 60 64

<210> 1009  
 <211> 60  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1009  
 Val Pro His Pro Leu Gln Ala Ile His Glu Gln Met Asn Cys Lys Glu  
 1 5 10 15  
 Tyr Gln Glu Asp Leu Ala Leu Arg Ala Gln Asn Asp Ala Ala Ala Arg  
 20 25 30  
 Arg Pro Ser Glu Met Phe Lys Val Arg Leu Ala Gln Gly Arg Gly Leu  
 35 40 45  
 Ala Ser Leu Ser Ser Gly Ile Gln Ser Gly Val Gly  
 50 55 60

<210> 1010  
 <211> 44  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1010  
 Arg Trp Asn Ser Leu Thr Cys Val Val Leu Thr Phe Leu Gly His Arg  
 1 5 10 15  
 Leu Leu Lys Arg Phe Leu Val Pro Lys Leu Arg Arg Phe Leu Lys Pro  
 20 25 30  
 Gln Gly His Pro Arg Leu Leu Leu Trp Phe Lys Arg  
 35 40 44

<210> 1011  
 <211> 219  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1011  
 Tyr Gly Glu Phe Val Thr Tyr Gln Gly Val Ala Val Thr Arg Ser Arg  
 1 5 10 15  
 Lys Glu Gly Ile Ala His Asn Tyr Lys Asn Glu Thr Glu Trp Arg Ala  
 20 25 30  
 Asn Ile Asp Thr Val Met Ala Trp Phe Thr Glu Glu Asp Leu Asp Leu  
 35 40 45  
 Val Thr Leu Tyr Phe Gly Glu Pro Asp Ser Thr Gly His Arg Tyr Gly  
 50 55 60  
 Pro Glu Ser Pro Glu Arg Arg Glu Met Val Arg Gln Val Asp Arg Thr  
 65 70 75 80

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg  
                             85                            90                            95  
 Leu Asn Leu Ile Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys  
                             100                            105                            110  
 Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe  
                             115                            120                            125  
 Arg Asp Ile Glu Phe Glu Leu Leu Asp Tyr Gly Pro Asn Gly Met Leu  
                             130                            135                            140  
 Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp  
                             145                            150                            155                            160  
 Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala  
                             165                            170                            175  
 Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser  
                             180                            185                            190  
 Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro  
                             195                            200                            205  
 Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser  
                             210                            215                            219

<210> 1012  
 <211> 89  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1012  
 Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly  
   1                            5                            10                            15  
 Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly  
                             20                            25                            30  
 Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu  
                             35                            40                            45  
 Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly  
                             50                            55                            60  
 Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys  
                             65                            70                            75                            80  
 Pro Ser Ser Ser Leu Glu Thr Phe Phe  
                             85                            89

<210> 1013  
 <211> 82  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1013  
 Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln  
   1                            5                            10                            15  
 Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Gly Trp Lys Leu Ser  
                             20                            25                            30  
 His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe  
                             35                            40                            45  
 Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu  
                             50                            55                            60  
 Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser  
                             65                            70                            75                            80

Trp Asp  
82

<210> 1014  
<211> 107  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(107)  
<223> X = any amino acid or stop code

<400> 1014  
Tyr Cys Phe Cys Phe Asp Leu Leu His Xaa Cys Ile His Arg Asp Val  
1 5 10 15  
Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys  
20 25 30  
Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr  
35 40 45  
Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Pro Val Gly  
50 55 60  
Asp Thr Gln Tyr Gly Pro Val Asp Val Trp Ala Ile Gly Cys Val  
65 70 75 80  
Ser Ala Glu Leu Leu Ser Gly Lys Cys Leu Trp Trp Pro Gly Lys Ser  
85 90 95  
Asp Met Leu Asp Gln Leu Tyr Leu Ile Arg Lys  
100 105 107

<210> 1015  
<211> 70  
<212>Amino acid  
<213> Homo sapiens

<400> 1015  
Arg Gly Trp Ala Leu Asp Trp Ile Gly Ala Asp Leu Ser Leu His Leu  
1 5 10 15  
Gln Glu Glu Val Glu Thr Glu Val Ala Trp Glu Glu Cys Gly His Val  
20 25 30  
Leu Leu Ser Leu Cys Tyr Ser Ser Gln Gln Gly Gly Leu Leu Val Gly  
35 40 45  
Val Leu Arg Cys Ala His Leu Ala Pro Met Asp Ala Asn Gly Tyr Ser  
50 55 60  
Asp Pro Phe Val Arg Leu  
65 70

<210> 1016  
<211> 142  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 1016

```

Gly Gly Ile Leu Ala Met Glu Tyr Ala Pro Gly Gly Thr Leu Ala Glu
 1           5           10           15
Phe Ile Gln Lys Arg Cys Asn Ser Leu Leu Glu Glu Glu Thr Ile Leu
      20           25           30
His Phe Phe Val Gln Ile Leu Leu Ala Leu His His Val His Thr His
      35           40           45
Leu Ile Leu His Arg Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Lys
      50           55           60
His Arg Met Val Val Lys Ile Gly Asp Phe Gly Ile Ser Lys Ile Leu
      65           70           75           80
Ser Ser Lys Ser Lys Ala Tyr Thr Val Val Gly Thr Pro Cys Tyr Ile
      85           90           95
Ser Pro Glu Leu Cys Glu Gly Lys Pro Tyr Asn Gln Lys Ser Asp Ile
      100          105          110
Trp Ala Leu Gly Cys Val Leu Tyr Glu Leu Ala Ser Leu Lys Arg Ala
      115          120          125
Phe Glu Ala Ala Asn Leu Pro Ala Leu Val Leu Lys Ile Met
      130          135          140          142

```

&lt;210&gt; 1017

&lt;211&gt; 87

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1017

```

Val Gln Cys Gly Gly Ile His Gln Val Ser Gly Ala Val Val Val Ser
 1           5           10           15
Gly Leu Leu Gln Gly Met Met Gly Leu Leu Gly Ser Pro Gly His Val
      20           25           30
Phe Pro His Cys Gly Pro Leu Val Leu Ala Pro Ser Leu Val Val Ala
      35           40           45
Gly Leu Ser Ala His Arg Glu Val Ala Gln Phe Cys Phe Thr His Trp
      50           55           60
Gly Leu Ala Leu Leu Tyr Val Ser Pro Glu Arg Arg Gly Met Val Pro
      65           70           75           80
Ser Gly Gly Val Trp Gly Asp
      85           87

```

&lt;210&gt; 1018

&lt;211&gt; 160

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1018

```

Pro Arg Met Thr Gly Ser Thr His Ala Ser Ala Pro Ser Tyr Gly Gly
 1           5           10           15
Ser Cys Arg Asn Asn Leu Phe Tyr Arg Glu Glu Thr Tyr Thr Pro Lys
      20           25           30
Ala Glu Thr Asp Glu Met Asn Glu Val Glu Thr Ala Pro Ile Pro Glu
      35           40           45
Glu Asn His Val Trp Leu Gln Pro Arg Val Met Arg Pro Thr Lys Pro

```

```

      50              55              60
Lys Lys Thr Ser Ala Val Asn Tyr Met Thr Gln Val Val Arg Cys Asp
 65              70              75              80
Thr Lys Met Lys Asp Arg Cys Ile Gly Ser Thr Cys Asn Arg Tyr Gln
      85              90              95
Cys Pro Ala Gly Cys Leu Asn His Lys Ala Lys Ile Phe Gly Ser Leu
      100              105              110
Phe Tyr Glu Ser Phe Ala Ser Ile Cys Arg Ala Ala Ile His Tyr Gly
      115              120              125
Ile Leu Asp Asp Lys Gly Gly Leu Val Asp Ile Thr Arg Asn Gly Lys
      130              135              140
Val Pro Phe Phe Val Lys Ser Glu Arg His Gly Val Gln Ser Leu Arg
      145              150              155              160

```

&lt;210&gt; 1019

&lt;211&gt; 174

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1019

```

Val Pro Gln Asn Ile Ile Cys Ala Phe Phe Cys Val Pro Cys Arg Phe
 1              5              10              15
Ala Ser Thr Ile Pro Phe Trp Gly Leu Thr Leu His Leu Gln His Leu
      20              25              30
Gly Asn Asn Val Phe Leu Leu Gln Thr Leu Phe Gly Ala Val Thr Leu
      35              40              45
Leu Ala Asn Cys Val Ala Pro Trp Ala Leu Asn His Met Ser Arg Arg
      50              55              60
Leu Ser Gln Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala
      65              70              75              80
Ile Ile Phe Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala
      85              90              95
Thr Leu Gly Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala
      100              105              110
Gln Glu Asn Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly
      115              120              125
Ile Thr Gly Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val
      130              135              140
Met Ile Leu Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly
      145              150              155              160
Val Phe Ala Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
      165              170              174

```

&lt;210&gt; 1020

&lt;211&gt; 225

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1020

```

Val Leu Val Ser Arg Asp His Met Lys Ser Ala Gln Gln Phe Phe Gln
 1              5              10              15
Leu Val Gly Gly Ser Ala Ser Glu Cys Asp Thr Ile Pro Gly Arg Gln

```



```

      20      25      30
Cys Met Ala Ser Cys Phe Phe Leu Leu Lys Gln Phe Asp Asp Val Leu
      35      40      45
Ile Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe
      50      55      60
Asn Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu
      65      70      75      80
Gly Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp
      85      90      95
Tyr Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys
      100      105      110
Pro Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu
      115      120      125
Ser Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly
      130      135      140
Gln Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp
      145      150      155      160
Pro Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile
      165      170      175
Phe Gln Met Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu
      180      185      190
Val Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met
      195      200      205
Ile Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu
      210      215      220
Lys
225

```

```

<210> 1021
<211> 118
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1021
Leu Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln
 1      5      10      15
Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp
      20      25      30
Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys
      35      40      45
Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val
      50      55      60
Arg Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu
      65      70      75      80
His Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu
      85      90      95
Arg Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg
      100      105      110
Leu Arg Trp Leu Met Pro
      115      118

```

```

<210> 1022
<211> 178
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 1022

Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser  
 1 5 10 15  
 Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr  
 20 25 30  
 Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His  
 35 40 45  
 Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His  
 50 55 60  
 Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys  
 65 70 75 80  
 Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly  
 85 90 95  
 Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile  
 100 105 110  
 Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn  
 115 120 125  
 Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser  
 130 135 140  
 Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala  
 145 150 155 160  
 Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly  
 165 170 175  
 Lys Thr  
 178

&lt;210&gt; 1023

&lt;211&gt; 146

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu  
 1 5 10 15  
 Ala Ser Ala Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val  
 20 25 30  
 Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu  
 35 40 45  
 Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln  
 50 55 60  
 Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu  
 65 70 75 80  
 Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln  
 85 90 95  
 Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu  
 100 105 110  
 Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala  
 115 120 125  
 Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala  
 130 135 140  
 Lys Lys  
 145 146

&lt;210&gt; 1024

&lt;211&gt; 39

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1024

Ala Met Glu Ile Val His Glu Pro Arg Asp Leu Glu Arg Tyr Met Arg  
 1 5 10 15  
 Glu Ala Val Lys Val Ser Asn Asp Ser Pro Val Leu Leu Asp Arg Phe  
 20 25 30  
 Leu Asn Asp Ala Ile Glu Cys  
 35 39

&lt;210&gt; 1025

&lt;211&gt; 53

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1025

Met Leu Ser Pro Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser  
 1 5 10 15  
 Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Val Ala Leu  
 20 25 30  
 Tyr Phe Gly Gln Met Met Leu Glu Gly Tyr Ile Phe Leu Tyr Met Gly  
 35 40 45  
 Arg Glu Gly Phe Lys  
 50 53

&lt;210&gt; 1026

&lt;211&gt; 365

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1026

Pro Arg Val Arg Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln  
 1 5 10 15  
 Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val  
 20 25 30  
 Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser  
 35 40 45  
 Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu  
 50 55 60  
 Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp Thr Leu Ser  
 65 70 75 80  
 Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val  
 85 90 95  
 Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile  
 100 105 110  
 Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn  
 115 120 125  
 Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg  
 130 135 140  
 Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly

```

145              150              155              160
Ala Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe
              165              170              175
Val Val Leu Pro Thr Gly Asp Val Trp Ser Arg Pro Asp Gly Ser Tyr
              180              185              190
Leu Asn Lys Leu Leu Ile Thr Arg Ala Arg Gln Asp Asp Ala Gly Met
              195              200              205
Tyr Ile Cys Leu Gly Ala Asn Thr Met Gly Tyr Ser Phe Arg Ser Ala
              210              215              220
Phe Leu Thr Val Leu Pro Asp Pro Lys Pro Pro Gly Pro Pro Val Ala
225              230              235              240
Ser Ser Ser Ser Ala Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile
              245              250              255
Pro Ala Gly Ala Val Phe Ile Leu Gly Thr Leu Leu Leu Trp Leu Cys
              260              265              270
Gln Ala Gln Lys Lys Pro Cys Thr Pro Ala Pro Ala Pro Pro Leu Pro
              275              280              285
Gly His Arg Pro Pro Gly Thr Ala Arg Asp Arg Ser Gly Asp Lys Asp
              290              295              300
Leu Pro Ser Leu Ala Ala Leu Ser Ala Gly Pro Gly Val Gly Leu Cys
305              310              315              320
Glu Glu His Gly Ser Pro Ala Ala Pro Gln His Leu Leu Gly Pro Gly
              325              330              335
Pro Val Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr Thr Asp Ile Pro
              340              345              350
His His Thr His Thr His Thr Pro His Pro Pro Ala Asn
              355              360              365

```

&lt;210&gt; 1027

&lt;211&gt; 30

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1027

```

Asn Phe His Phe Thr Gly Lys Cys Leu Phe Met Ser Gly Leu Ser Glu
 1              5              10              15
Val Gln Leu Thr His Met Asp Asp His Thr Leu Pro Gly Tyr
              20              25              30

```

&lt;210&gt; 1028

&lt;211&gt; 104

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1028

```

Ser Pro Arg Lys Arg Lys Thr Arg His Ser Thr Asn Pro Pro Leu Glu
 1              5              10              15
Cys His Val Gly Trp Val Met Asp Ser Arg Asp His Gly Pro Gly Thr
              20              25              30
Ser Ser Val Ser Thr Ser Asn Ala Ser Pro Ser Glu Gly Ala Pro Leu
              35              40              45
Ala Gly Ser Tyr Gly Cys Thr Pro His Ser Phe Pro Lys Phe Gln His
              50              55              60
Pro Ser His Glu Leu Leu Lys Glu Asn Gly Phe Thr Gln Gln Val Tyr

```

```

      65              70              75              80
His Lys Tyr Arg Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile
      85              90              95
Gly Gln Ser Gln Glu Met Asn Thr
      100              104

```

```

<210> 1029
<211> 119
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1029
Pro Gly Ser Gly Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln
 1          5          10          15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro
      20          25          30
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp
      35          40          45
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His
      50          55          60
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu
      65          70          75          80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr
      85          90          95
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys
      100          105          110
Gly Leu Tyr His Lys Met Asn
      115          119

```

```

<210> 1030
<211> 171
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(171)
<223> X = any amino acid or stop code

```

```

      <400> 1030
Pro Asp His Arg His Gly Ala Leu Trp Trp Trp Tyr Ser Cys Gly Val
 1          5          10          15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val
      20          25          30
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu
      35          40          45
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro
      50          55          60
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys
      65          70          75          80
Leu Ser Ala Ala Pro Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu
      85          90          95
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys
      100          105          110

```

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser  
           115                          120                          125  
 Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala  
       130                          135                          140  
 Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys  
 145                          150                          155                          160  
 Leu Asn His Lys Gly Leu Ser Arg Ala His Phe  
                           165                          170 171

<210> 1031  
 <211> 198  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1031  
 Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly  
   1                          5                          10                          15  
 Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr  
           20                          25                          30  
 Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala  
           35                          40                          45  
 Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe  
   50                          55                          60  
 Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu  
   65                          70                          75                          80  
 Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile  
           85                          90                          95  
 Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg  
           100                          105                          110  
 Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala  
           115                          120                          125  
 Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile  
   130                          135                          140  
 Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile  
 145                          150                          155                          160  
 Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala  
           165                          170                          175  
 Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln  
           180                          185                          190  
 Leu Arg Thr Leu Asn Ala  
           195                          198

<210> 1032  
 <211> 138  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(138)  
 <223> X = any amino acid or stop code

<400> 1032  
 Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

```

      1           5           10           15
Met Phe Ser Gly Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu
      20           25           30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu
      35           40           45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln
      50           55           60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val
      65           70           75           80
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys
      85           90           95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro
      100          105          110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp
      115          120          125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *
      130          135          137

```

&lt;210&gt; 1033

&lt;211&gt; 141

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1033

```

Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala
      1           5           10           15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val
      20           25           30
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro
      35           40           45
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys
      50           55           60
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met
      65           70           75           80
Met Pro Gly His Gly His Gly His Met Glu His Ser Asn Trp Arg Met
      85           90           95
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr
      100          105          110
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp
      115          120          125
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile
      130          135          140 141

```

&lt;210&gt; 1034

&lt;211&gt; 112

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1034

```

Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
      1           5           10           15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
      20           25           30
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu

```

```

      35      40      45
Ala Ala Lys Leu Met Lys Asp Val Ile Ala Glu Pro Tyr Arg Glu Arg
  50      55      60
Leu Leu Pro Gly Phe Arg Gln Ala Arg Gln Ala Val Ala Glu Ile Gly
  65      70      75      80
Ala Val Ala Ser Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
      85      90      95
Cys Asp Lys Pro Glu Thr Ala Gln Arg Val Ala Asp Trp Leu Gly Lys
      100      105      110      112

```

<210> 1035  
 <211> 92  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1035
Gly Gln Gln Gln Arg Val Ala Leu Ala Arg Ala Leu Ile Leu Lys Pro
  1      5      10      15
Lys Val Leu Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Asn Leu
      20      25      30
Arg Arg Ser Met Arg Asp Lys Ile Arg Glu Leu Gln Lys Gln Phe Asp
      35      40      45
Ile Thr Ser Leu Tyr Val Thr His Asp Gln Ser Glu Ala Phe Ala Val
      50      55      60
Ser Asp Thr Val Leu Val Met Asn Lys Gly His Ile Met Gln Ile Gly
      65      70      75      80
Ser Pro Gln Asp Leu Arg Val Arg Arg Leu Asn Trp
      85      90      92

```

<210> 1036  
 <211> 51  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1036
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys
  1      5      10      15
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Arg Val Ala Ile Ala
      20      25      30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr
      35      40      45
Ser Ala Leu
      50      51

```

<210> 1037  
 <211> 72  
 <212>Amino acid  
 <213> Homo sapiens



&lt;400&gt; 1037

```

Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn
 1          5          10          15
Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp
          20          25          30
Ile Phe Ser Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly
          35          40          45
Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu
 50          55          60
Leu Ala Gly Tyr Tyr Glu Gly Trp
 65          70          72

```

&lt;210&gt; 1038

&lt;211&gt; 188

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1038

```

Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp
 1          5          10          15
Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp
          20          25          30
His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val
          35          40          45
Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met
 50          55          60
Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile
 65          70          75          80
Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile
          85          90          95
Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu
          100          105          110
Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly
          115          120          125
Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr
          130          135          140
Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp
          145          150          155          160
Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys
          165          170          175
Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile
          180          185          188

```

&lt;210&gt; 1039

&lt;211&gt; 122

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1039

```

Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg
 1          5          10          15
Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

```

```

      20      25      30
Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly Ala Trp Thr Asp Val
      35      40      45
Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln Thr Asp Val Phe Met
      50      55      60
Thr Gln Arg Ala Thr Gly Val Ala Thr Tyr Arg Asn Asn Asp Phe Phe
      65      70      75      80
Gly Leu Val Asp Gly Leu Asn Phe Ala Ala Gln Tyr Gln Gly Lys Asn
      85      90      95
Asp Arg Ser Asp Phe Asp Asn Tyr Thr Glu Gly Asn Gly His Gly Phe
      100      105      110
Gly Phe Ser Ala Thr Tyr Glu Tyr Glu Gly
      115      120      122

```

<210> 1040  
 <211> 65  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1040
Asp Thr Tyr Ser Val Ser Ile Pro Leu Gly Ala Thr Ile Asn Met Ala
  1      5      10      15
Gly Ala Ala Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val Asn Thr
      20      25      30
Leu Gly Ile Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val
      35      40      45
Ala Ser Leu Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu
      50      55      60
Leu
65

```

<210> 1041  
 <211> 46  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1041
Ala Asn Ala Gln Gln Gly Leu Pro Ser Gly Ile Thr Leu Lys Leu Asn
  1      5      10      15
Asn Leu Val Asp Lys Gly Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser
      20      25      30
Ser Gly Val Pro Val Asn Leu Leu Val Arg Gly Thr Cys Ser
      35      40      45      46

```

<210> 1042  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1042

```

Ala Arg Met Thr Leu Ile Pro Gly Thr His Leu Leu Glu Asn Ile His
 1           5           10           15
Asn Ile Trp Val Asn Gly Val Gly Thr Asn Ser Ala Pro Phe Trp Arg
 20           25           30
Met Leu Leu Asn Ser Phe Val Met Ala Phe Ser Ile Thr Leu Gly Lys
 35           40           45
Ile Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe
 50           55           60
Pro Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu
 65           70           75           80
Pro Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu
 85           90           95
Gln Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser
 100          105          110
Ala Thr Ala Thr Phe Leu Phe Arg Lys Leu Asn Met Ser Gly Pro Asp
 115          120          125
Lys Val Val Pro Ala Ala Arg Ile Ser Gly Tyr Gly Pro Arg Val Arg
 130          135          140
Lys Gln
145 146

```

&lt;210&gt; 1043

&lt;211&gt; 133

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1043

```

Cys Ala Lys Cys Leu Arg Asp Ala Asp Glu Cys Pro Ser Gly Ala Phe
 1           5           10           15
Glu Arg Ile Gly Arg Asp Ile Ser Leu Asp Ala Leu Glu Arg Glu Val
 20           25           30
Met Lys Asp Asp Ile Phe Phe Arg Thr Ser Gly Gly Gly Val Thr Leu
 35           40           45
Ser Gly Gly Glu Val Leu Met Gln Ala Glu Phe Ala Thr Arg Phe Leu
 50           55           60
Gln Arg Leu Arg Leu Trp Gly Val Ser Cys Ala Ile Glu Thr Ala Gly
 65           70           75           80
Asp Ala Pro Ala Ser Lys Leu Leu Pro Leu Ala Lys Leu Cys Asp Glu
 85           90           95
Val Leu Phe Asp Leu Lys Ile Met Asp Ala Thr Gln Ala Arg Asp Val
 100          105          110
Val Lys Met Asn Leu Pro Arg Val Leu Glu Asn Leu Arg Leu Leu Val
 115          120          125
Ser Glu Gly Val Asn
 130          133

```

&lt;210&gt; 1044

&lt;211&gt; 115

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1044

```

Tyr Leu Leu Leu Phe Val Cys Phe Leu Val Met Ser Leu Leu Val Gly

```

```

      1             5             10             15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp
      20             25             30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu
      35             40             45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn
      50             55             60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp
      65             70             75             80
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp
      85             90             95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu
      100             105             110
Ala Val Gly
      115

```

```

<210> 1045
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1045
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val
      1             5             10             15
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe
      20             25             30
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile
      35             40             45
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile
      50             55             60
Thr Leu Glu Asp Asn
      65             69

```

```

<210> 1046
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1046
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala Gln
      1             5             10             15
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser
      20             25             30
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu
      35             40             45
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val
      50             55             60
Ala Asp Ala Leu Gln
      65             69

```

```

<210> 1047
<211> 43
<212>Amino acid

```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1047

```

Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr
 1           5           10           15
Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro
      20           25           30
Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val
      35           40           43

```

&lt;210&gt; 1048

&lt;211&gt; 77

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(77)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1048

```

Xaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln
 1           5           10           15
Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser
      20           25           30
Ala Leu Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala
      35           40           45
Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu
      50           55           60
Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa *
      65           70           75 76

```

&lt;210&gt; 1049

&lt;211&gt; 79

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1049

```

Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val
 1           5           10           15
Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe
      20           25           30
Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp
      35           40           45
Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro
      50           55           60
Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr
      65           70           75           79

```

<210> 1050  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1050  
 Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp  
 1 5 10 15  
 Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly  
 20 25 30  
 Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn  
 35 40 45  
 Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr  
 50 55 60  
 Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys  
 65 70 75 80  
 Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly  
 85 90 95  
 Pro Arg Ile  
 99

<210> 1051  
 <211> 114  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1051  
 Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln  
 1 5 10 15  
 Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro  
 20 25 30  
 Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp  
 35 40 45  
 Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val  
 50 55 60  
 Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala  
 65 70 75 80  
 Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys  
 85 90 95  
 Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys  
 100 105 110  
 Glu Lys  
 114

<210> 1052  
 <211> 210  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1052

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly  
 1 5 10 15  
 Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu  
 20 25 30  
 Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser  
 35 40 45  
 Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg  
 50 55 60  
 Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val  
 65 70 75 80  
 Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu  
 85 90 95  
 Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr  
 100 105 110  
 Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His  
 115 120 125  
 His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln  
 130 135 140  
 Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu  
 145 150 155 160  
 Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val  
 165 170 175  
 Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala  
 180 185 190  
 Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg  
 195 200 205  
 Leu Leu  
 210

&lt;210&gt; 1053

&lt;211&gt; 100

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1053

Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly  
 1 5 10 15  
 Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu  
 20 25 30  
 Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser  
 35 40 45  
 Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu  
 50 55 60  
 Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser  
 65 70 75 80  
 His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp  
 85 90 95  
 Lys Arg Leu Gln  
 100

&lt;210&gt; 1054

&lt;211&gt; 194

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

```

<400> 1054
Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Phe Leu Arg Trp Ser Phe
 1           5           10           15
Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu
          20           25           30
Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu
          35           40           45
Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe
          50           55           60
Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu
          65           70           75           80
Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile
          85           90           95
Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Phe Phe Leu Arg Trp
          100          105          110
Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly
          115          120          125
Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe
          130          135          140
Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys
          145          150          155          160
Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser
          165          170          175
Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Gly Ala Glu Thr Val Gln
          180          185          190
Gly Leu
          194

```

<210> 1055

<211> 351

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(351)

<223> X = any amino acid or stop code

```

<400> 1055
Met Gly Asn Ala Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val
 1           5           10           15
Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu
          20           25           30
Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys
          35           40           45
Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys
          50           55           60
Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val
          65           70           75           80
Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu
          85           90           95
Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys
          100          105          110
Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu
          115          120          125
Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala
          130          135          140
Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

```



```

145          150          155          160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
          165          170          175
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
          180          185          190
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
          195          200          205
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
          210          215          220
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe
225          230          235          240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val
          245          250          255
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn
          260          265          270
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly
          275          280          285
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
290          295          300
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
305          310          315          320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Ile
          325          330          335
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe
          340          345          350 351

```

&lt;210&gt; 1056

&lt;211&gt; 136

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (136)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1056

```

Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
 1          5          10          15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
          20          25          30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
          35          40          45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
          50          55          60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
          65          70          75          80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
          85          90          95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
          100          105          110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
          115          120          125
Leu Thr Thr Ser Thr Ser Thr Phe
          130          135 136

```

&lt;210&gt; 1057

&lt;211&gt; 79

<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(79)  
<223> X = any amino acid or stop code

<400> 1057

Thr	Phe	His	Ser	Leu	Glu	Lys	Asn	Ile	Leu	Gln	Pro	Cys	Arg	Xaa
1			5				10					15		
Arg	Arg	Ala	Ile	Cys	Leu	Pro	Leu	Leu	Leu	Xaa	Pro	Ser	Val	Pro
		20					25					30		Leu
Leu	Ala	Pro	Gln	Tyr	Phe	Ser	Asp	Leu	Arg	Asn	Ser	Ile	Val	Asn
		35					40					45		Ser
Gln	Pro	Pro	Glu	Lys	Gln	Gln	Ala	Met	His	Leu	Cys	Phe	Glu	Asn
	50					55					60			Leu
Met	Glu	Gly	Ile	Glu	Arg	Asn	Leu	Leu	Thr	Lys	Asn	Arg	Asp	Arg
65					70					75				79

<210> 1058  
<211> 458  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> X = any amino acid or stop code

<400> 1058

Gly	Thr	Ser	Gly	Val	Gln	Gln	Glu	Ile	Ser	Arg	Leu	Thr	Asn	Glu	Asn
1			5				10						15		
Leu	Asp	Leu	Lys	Glu	Leu	Val	Glu	Lys	Leu	Glu	Lys	Asn	Glu	Arg	Lys
		20					25					30			
Leu	Lys	Lys	Gln	Leu	Lys	Ile	Tyr	Met	Lys	Lys	Ala	Gln	Asp	Leu	Glu
		35					40					45			
Ala	Ala	Gln	Ala	Leu	Ala	Gln	Ser	Glu	Arg	Lys	Arg	His	Glu	Leu	Asn
	50					55					60				
Arg	Gln	Val	Thr	Val	Gln	Arg	Lys	Glu	Lys	Asp	Phe	Gln	Gly	Met	Leu
65					70					75				80	
Glu	Tyr	His	Lys	Glu	Asp	Glu	Ala	Leu	Leu	Ile	Arg	Asn	Leu	Val	Thr
			85							90				95	
Asp	Leu	Lys	Pro	Gln	Met	Leu	Ser	Gly	Thr	Val	Pro	Cys	Leu	Pro	Ala
		100						105					110		
Tyr	Ile	Leu	Tyr	Met	Cys	Ile	Arg	His	Ala	Asp	Tyr	Thr	Asn	Asp	Asp
		115					120					125			
Leu	Lys	Val	His	Ser	Leu	Leu	Thr	Ser	Thr	Ile	Asn	Gly	Ile	Lys	Lys
		130					135					140			
Val	Leu	Lys	Lys	His	Asn	Asp	Asp	Phe	Glu	Met	Thr	Ser	Phe	Trp	Leu
145					150					155					160
Ser	Asn	Thr	Cys	Arg	Leu	Leu	His	Cys	Leu	Lys	Gln	Tyr	Ser	Gly	Asp
			165						170					175	
Glu	Gly	Phe	Met	Thr	Gln	Asn	Thr	Ala	Lys	Gln	Asn	Glu	His	Cys	Leu
			180					185						190	

```

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser
    195                200                205
Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln
    210                215                220
Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu
    225                230                235                240
Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala
    245                250                255
Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn
    260                265                270
Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile
    275                280                285
Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu
    290                295                300
Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met
    305                310                315                320
Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg
    325                330                335
Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln
    340                345                350
Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu
    355                360                365
Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys
    370                375                380
Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr
    385                390                395                400
Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp
    405                410                415
Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe
    420                425                430
Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala
    435                440                445
Cys Leu Asn Leu Glu Phe Leu Asn Glu Val
    450                455                458

```

&lt;210&gt; 1059

&lt;211&gt; 82

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(82)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1059

```

His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro
  1          5          10          15
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu
    20          25          30
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp
    35          40          45
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro
    50          55          60
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser
    65          70          75          80
Ser Asn
    82

```

<210> 1060  
 <211> 277  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1060  
 Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr  
 1 5 10 15  
 Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys  
 20 25 30  
 Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu  
 35 40 45  
 Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His  
 50 55 60  
 Lys Lys Asn Lys Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly  
 65 70 75 80  
 Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln  
 85 90 95  
 Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala  
 100 105 110  
 Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala  
 115 120 125  
 Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His  
 130 135 140  
 Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr  
 145 150 155 160  
 Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys  
 165 170 175  
 Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys  
 180 185 190  
 Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn  
 195 200 205  
 Pro Lys Gly Leu Tyr Ala Asp Gly Gly Gly Cys Lys Leu Cys Gly Ser  
 210 215 220  
 Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg  
 225 230 235 240  
 Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu  
 245 250 255  
 Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro  
 260 265 270  
 Lys Val Val Asn Phe  
 275 277

<210> 1061  
 <211> 95  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(95)  
 <223> X = any amino acid or stop code

<400> 1061

```

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val
 1           5           10           15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe
           20           25           30
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
           35           40           45
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn
           50           55           60
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser
           65           70           75           80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly
           85           90           95

```

&lt;210&gt; 1062

&lt;211&gt; 259

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(259)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1062

```

Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro
 1           5           10           15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile
           20           25           30
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly
           35           40           45
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro
           50           55           60
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly
           65           70           75           80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn
           85           90           95
Tyr Ile Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met
           100           105           110
Ala Gly Arg Glu Gly Arg Pro Ser Ser Leu Leu Pro Lys Pro Gly Lys
           115           120           125
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala
           130           135           140
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala
           145           150           155           160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser
           165           170           175
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro
           180           185           190
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn
           195           200           205
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys
           210           215           220
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro
           225           230           235           240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile
           245           250           255
Ser Gln Leu
           259

```

<210> 1063  
 <211> 498  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1063  
 Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu  
 1 5 10 15  
 His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met  
 20 25 30  
 Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile  
 35 40 45  
 Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala  
 50 55 60  
 Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu  
 65 70 75 80  
 Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val  
 85 90 95  
 Phe Ala Leu Tyr Leu Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met  
 100 105 110  
 Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly  
 115 120 125  
 Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala  
 130 135 140  
 Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu  
 145 150 155 160  
 Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr  
 165 170 175  
 Asn Val Glu Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met  
 180 185 190  
 Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu  
 195 200 205  
 Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His  
 210 215 220  
 Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu  
 225 230 235 240  
 Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro  
 245 250 255  
 Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala  
 260 265 270  
 Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser  
 275 280 285  
 Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr  
 290 295 300  
 Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln  
 305 310 315 320  
 Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp  
 325 330 335  
 Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro  
 340 345 350  
 Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser  
 355 360 365  
 Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met  
 370 375 380  
 Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser  
 385 390 395 400  
 Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly  
 405 410 415  
 Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

```

      420      425      430
Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe
      435      440      445
Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys
      450      455      460
Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val
465      470      475      480
Gly Pro Arg Gly Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser
      485      490      495
Gly Arg
498

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<210> 1064
<211> 374
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1064
Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro
 1      5      10      15
Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser
      20      25      30
Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly
      35      40      45
Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu
      50      55      60
Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser
      65      70      75      80
Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile
      85      90      95
Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr
      100      105      110
Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala
      115      120      125
Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr
      130      135      140
Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp
145      150      155      160
Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp
      165      170      175
Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu
      180      185      190
Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val
      195      200      205
Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile
      210      215      220
Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val
225      230      235      240
Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr
      245      250      255
Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys
      260      265      270
Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu
      275      280      285
Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys
      290      295      300
Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser
305      310      315      320
Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys

```

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          325          330          335
Ala Ile His Glu Val Phe Glu Val Arg Met Lys Val Val Lys Ser Arg
          340          345          350
Lys Val Gln Asn Arg Leu Gln Lys Lys Arg Ala Thr Pro Asn Gly
          355          360          365
Thr Pro Arg Val Leu Leu
          370          374

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<210> 1065  
 <211> 278  
 <212>Amino acid  
 <213> Homo sapiens

```

    <400> 1065
Arg Thr Arg Gly Arg Asp Pro Gly Ala Gly Phe Arg Arg Thr Ala Asn
 1          5          10          15
Lys Arg Cys Cys Arg Arg Arg Phe Leu Ile Gly Cys Gly Trp Leu Pro
          20          25          30
Leu Arg Ser Asp Trp Pro Leu Val Ser Lys Met Leu Ser Lys Gly Leu
          35          40          45
Lys Arg Lys Arg Glu Glu Glu Glu Glu Lys Glu Pro Leu Ala Val Asp
          50          55          60
Ser Trp Trp Leu Asp Pro Gly His Ala Ala Val Ala Gln Ala Pro Pro
          65          70          75          80
Ala Val Ala Ser Ser Ser Leu Phe Asp Leu Ser Val Leu Lys Leu His
          85          90          95
His Ser Leu Gln Gln Ser Glu Pro Asp Leu Arg His Leu Val Leu Val
          100          105          110
Val Asn Thr Leu Arg Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Ala
          115          120          125
Leu Pro Pro Val Pro Ser Pro Pro Ala Ala Pro Ser Val Ala Asp Asn
          130          135          140
Leu Leu Ala Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu
          145          150          155          160
Leu Glu Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro
          165          170          175
Leu Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro
          180          185          190
Ser Leu Gly Ala Leu Asp Leu Leu Gly Pro Ala Thr Gly Cys Leu Leu
          195          200          205
Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser Met Tyr
          210          215          220
Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys Pro Gly Pro
          225          230          235          240
Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu Asp Glu Ala Glu
          245          250          255
Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr Gln Ala Leu Glu Arg
          260          265          270
Pro Pro Gly Pro Gly Arg
          275          278

```

<210> 1066  
 <211> 502  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature



&lt;222&gt; (1)...(502)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1066

```

Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp
 1          5          10          15
His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys
          20          25          30
Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala
          35          40          45
Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln
          50          55          60
Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu
          65          70          75          80
Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His
          85          90          95
Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly
          100          105          110
Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys
          115          120          125
Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu
          130          135          140
Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg
          145          150          155          160
Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys
          165          170          175
Thr His Leu Leu Gln Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg
          180          185          190
Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala
          195          200          205
Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala
          210          215          220
Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu
          225          230          235          240
Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly
          245          250          255
Leu Leu Arg Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile
          260          265          270
Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu
          275          280          285
Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn
          290          295          300
Ser Lys Leu Lys Gln Ile Glu Lys Glu Tyr Thr Gln Lys Leu Ala Lys
          305          310          315          320
Ser Ser Gln Ile Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys
          325          330          335
Glu Glu Asn Ser Gln Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp
          340          345          350
Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn
          355          360          365
Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn
          370          375          380
Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser
          385          390          395          400
Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys
          405          410          415
Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser
          420          425          430
Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu
          435          440          445

```

Gln Glu Glu Arg Asp Tyr Ile Ser Arg Gln Lys Val Gln Pro Ile Ser  
 450 455 460  
 Arg Xaa Leu His Glu Arg Met Gln Arg Met Arg Ile Ser Arg Leu Cys  
 465 470 475 480  
 Cys Gly Thr Ser Ser Ser Arg Phe Glu Asp Leu Asp Ile Val Asn Cys  
 485 490 495  
 Glu Ile Ser Gly Ile Phe  
 500 502

<210> 1067

<211> 301

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(301)

<223> X = any amino acid or stop code

<400> 1067

Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys  
 1 5 10 15  
 Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe  
 20 25 30  
 Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr  
 35 40 45  
 Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp  
 50 55 60  
 Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser  
 65 70 75 80  
 Thr Met Leu Lys Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile  
 85 90 95  
 Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His  
 100 105 110  
 Val Glu Gln Leu Asp Leu Asn Val Gln Cys Leu Trp Glu Leu Ala Gly  
 115 120 125  
 His Ala Ser Phe Pro Gly Arg Pro Glu Glu Glu Tyr Arg His Gln Leu  
 130 135 140  
 Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Ala Met Arg Pro Leu Cys  
 145 150 155 160  
 Gln Pro Val Leu Gly Ala Arg Lys Lys Pro Lys Trp Pro Phe Ala Gln  
 165 170 175  
 Met Asp Tyr Cys Pro Ala Pro Thr Phe Tyr Ile Leu Asp Glu Pro Thr  
 180 185 190  
 Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys Leu  
 195 200 205  
 Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa Ser  
 210 215 220  
 Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly Gly  
 225 230 235 240  
 Gly Val Thr Arg Val Glu Arg Lys Asp Phe Asp Gln Tyr Arg Ala Leu  
 245 250 255  
 Leu Gln Gly Thr Val Ser Ala Arg Glu Gly Phe Pro Leu Gly Pro Pro  
 260 265 270  
 Arg Leu Lys Asp Ser Pro Arg Asp Met Gly Leu Val Ser Gln Thr Pro  
 275 280 285  
 Trp Gly His His Val Gly Tyr Pro Leu Pro Gly Arg Gly  
 290 295 300 301

<210> 1068  
 <211> 215  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1068  
 Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala  
 1 5 10 15  
 Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr  
 20 25 30  
 Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn  
 35 40 45  
 Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp  
 50 55 60  
 Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr  
 65 70 75 80  
 Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp  
 85 90 95  
 Ser Tyr Glu Tyr Phe Ala Val Leu Ala Lys Glu Leu Gly Ile Ser  
 100 105 110  
 Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu  
 115 120 125  
 Gln Ser Val His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg  
 130 135 140  
 Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala  
 145 150 155 160  
 Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala  
 165 170 175  
 Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu  
 180 185 190  
 Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu  
 195 200 205  
 Glu Lys Glu Glu Ser Lys Ser  
 210 215

<210> 1069  
 <211> 274  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(274)  
 <223> X = any amino acid or stop code

<400> 1069  
 Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala  
 1 5 10 15  
 Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln  
 20 25 30  
 Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg  
 35 40 45  
 Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp  
 50 55 60

Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu  
 65 70 75 80  
 Pro Ser Tyr Ile Ser Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa  
 85 90 95  
 Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys  
 100 105 110  
 Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe  
 115 120 125  
 Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser  
 130 135 140  
 Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly  
 145 150 155 160  
 Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val  
 165 170 175  
 Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn  
 180 185 190  
 Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp  
 195 200 205  
 Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val  
 210 215 220  
 Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu  
 225 230 235 240  
 Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Asp Val Pro Asp Gln  
 245 250 255  
 Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro  
 260 265 270  
 His Ser  
 274

&lt;210&gt; 1070

&lt;211&gt; 368

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(368)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1070

Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp  
 1 5 10 15  
 Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp  
 20 25 30  
 Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser  
 35 40 45  
 Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu  
 50 55 60  
 Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro  
 65 70 75 80  
 Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile  
 85 90 95  
 Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp  
 100 105 110  
 Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala  
 115 120 125  
 Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln  
 130 135 140  
 Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn

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145          150          155          160
Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser
          165          170          175
Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu
          180          185          190
Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala
          195          200          205
Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala
          210          215          220
Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile
225          230          235          240
Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr
          245          250          255
Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly
          260          265          270
Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Xaa Val Gly Glu Glu Leu
          275          280          285
Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp
290          295          300
Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys
305          310          315          320
Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly
          325          330          335
Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met
          340          345          350
Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Phe Ser Met Leu Gly
          355          360          365          368

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<210> 1071
<211> 81
<212>Amino acid
<213> Homo sapiens

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```

<400> 1071
Ala Leu Cys Val Val Pro Phe Asn Thr Phe His Asn Asp Phe Leu Leu
 1          5          10          15
Leu Asp Lys Glu Gly Thr Leu Asp Pro Val Met Asp Ser Phe Ser Thr
          20          25          30
His Trp Thr Thr Ile Gly Pro Ala Asp Met Phe Phe Ser Phe Arg Gln
          35          40          45
His Tyr Lys Asn Phe Lys Ser His Gly Thr Asn Pro Ser Lys Ser Val
          50          55          60
Trp Ala His Ala Thr Cys Gln Ser Cys Ala Phe Pro Asn Leu Leu Gly
          65          70          75          80
Trp
81

```

```

<210> 1072
<211> 494
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 1072

```

Thr Arg Leu Ala Glu Phe Gly Thr Arg Asp Pro Cys Ala Gln Ala Pro
 1           5           10           15
Cys Glu Gln Gln Cys Glu Pro Gly Gly Pro Gln Gly Tyr Ser Cys His
           20           25           30
Cys Arg Leu Gly Phe Arg Pro Ala Glu Asp Asp Pro His Arg Cys Val
           35           40           45
Asp Thr Asp Glu Cys Gln Ile Ala Gly Val Cys Gln Gln Met Cys Val
           50           55           60
Asn Tyr Val Gly Gly Phe Glu Cys Tyr Cys Ser Glu Gly His Glu Leu
           65           70           75           80
Glu Ala Asp Gly Ile Ser Cys Ser Pro Ala Gly Ala Met Gly Ala Gln
           85           90           95
Ala Ser Gln Asp Leu Gly Asp Glu Leu Leu Asp Asp Gly Glu Asp Glu
           100           105           110
Glu Asp Glu Asp Glu Ala Trp Lys Ala Phe Asn Gly Gly Trp Thr Glu
           115           120           125
Met Pro Gly Ile Leu Trp Met Glu Pro Thr Gln Pro Pro Asp Phe Ala
           130           135           140
Leu Ala Tyr Arg Pro Ser Phe Pro Glu Asp Arg Glu Pro Gln Ile Pro
           145           150           155           160
Tyr Pro Glu Pro Thr Trp Pro Pro Pro Leu Ser Ala Pro Arg Val Pro
           165           170           175
Tyr His Ser Ser Val Leu Ser Val Thr Arg Pro Val Val Val Ser Ala
           180           185           190
Thr His Pro Thr Leu Pro Ser Ala His Gln Pro Pro Val Ile Pro Ala
           195           200           205
Thr His Pro Ala Leu Ser Arg Asp His Gln Ile Pro Val Ile Ala Ala
           210           215           220
Asn Tyr Pro Asp Leu Pro Ser Ala Tyr Gln Pro Gly Ile Leu Ser Val
           225           230           235           240
Ser His Ser Ala Gln Pro Pro Ala His Gln Pro Pro Met Ile Ser Thr
           245           250           255
Lys Tyr Pro Glu Leu Phe Pro Ala His Gln Ser Pro Met Phe Pro Asp
           260           265           270
Thr Arg Val Ala Gly Thr Gln Thr Thr Thr His Leu Pro Gly Ile Pro
           275           280           285
Pro Asn His Ala Pro Leu Val Thr Thr Leu Gly Ala Gln Leu Pro Pro
           290           295           300
Gln Ala Pro Asp Ala Leu Val Leu Arg Thr Gln Ala Thr Gln Leu Pro
           305           310           315           320
Ile Ile Pro Thr Ala Gln Pro Ser Leu Thr Thr Thr Ser Arg Ser Pro
           325           330           335
Val Ser Pro Ala His Gln Ile Ser Val Pro Ala Ala Thr Gln Pro Ala
           340           345           350
Ala Leu Pro Thr Leu Leu Pro Ser Gln Ser Pro Thr Asn Gln Thr Ser
           355           360           365
Pro Ile Ser Pro Thr His Pro His Ser Lys Ala Pro Gln Ile Pro Arg
           370           375           380
Glu Asp Gly Pro Ser Pro Lys Leu Ala Leu Trp Leu Pro Ser Pro Ala
           385           390           395           400
Pro Thr Ala Ala Pro Thr Ala Leu Gly Glu Ala Gly Leu Ala Glu His
           405           410           415
Ser Gln Arg Asp Asp Arg Trp Leu Leu Val Ala Leu Leu Val Pro Thr
           420           425           430
Cys Val Phe Leu Val Val Leu Leu Ala Leu Gly Ile Val Tyr Cys Thr
           435           440           445
Arg Cys Gly Pro His Ala Pro Asn Lys Arg Ile Thr Asp Cys Tyr Arg
           450           455           460
Trp Val Ile His Ala Gly Ser Lys Ser Pro Thr Glu Pro Met Pro Pro
           465           470           475           480
Arg Gly Ser Leu Thr Gly Val Gln Thr Cys Arg Thr Ser Val
           485           490           494

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<210> 1073  
 <211> 468  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1073  
 Leu Arg Val Arg Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg  
 1 5 10 15  
 Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro  
 20 25 30  
 Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln  
 35 40 45  
 Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu  
 50 55 60  
 Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu  
 65 70 75 80  
 Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala  
 85 90 95  
 Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala  
 100 105 110  
 His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly  
 115 120 125  
 Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val  
 130 135 140  
 Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp  
 145 150 155 160  
 Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu  
 165 170 175  
 Phe Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp  
 180 185 190  
 Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu  
 195 200 205  
 His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp  
 210 215 220  
 Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr  
 225 230 235 240  
 Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val  
 245 250 255  
 Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln  
 260 265 270  
 Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg  
 275 280 285  
 Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met  
 290 295 300  
 Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp  
 305 310 315 320  
 Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro  
 325 330 335  
 Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp  
 340 345 350  
 Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys  
 355 360 365  
 Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro  
 370 375 380  
 Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala  
 385 390 395 400  
 Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met  
 405 410 415  
 Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met

420 425 430  
 Cys Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile  
 435 440 445  
 Val Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys  
 450 455 460  
 Thr Tyr Thr Val  
 465 468

<210> 1074  
 <211> 288  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1074  
 Val Val Glu Phe Ala Phe Gln Leu Ser Ser Val Ser Val Cys Leu Thr  
 1 5 10 15  
 Val Ser Phe Gly Trp Gln Leu Gly Thr Val Ser Ser Cys Leu Ser Arg  
 20 25 30  
 Asp Trp Phe Leu Lys Gly Asn Leu Leu Ile Ile Ile Val Ser Val Leu  
 35 40 45  
 Ile Ile Leu Pro Leu Ala Leu Met Lys His Leu Gly Tyr Leu Gly Tyr  
 50 55 60  
 Thr Ser Gly Leu Ser Leu Thr Cys Met Leu Phe Phe Leu Val Ser Val  
 65 70 75 80  
 Ile Tyr Lys Lys Phe Gln Leu Gly Cys Ala Ile Gly His Asn Glu Thr  
 85 90 95  
 Ala Met Glu Ser Glu Ala Leu Val Gly Leu Pro Ser Gln Gly Leu Asn  
 100 105 110  
 Ser Ser Cys Glu Ala Gln Met Phe Thr Val Asp Ser Gln Met Ser Tyr  
 115 120 125  
 Thr Val Pro Ile Met Ala Phe Ala Phe Val Cys His Pro Glu Val Leu  
 130 135 140  
 Pro Ile Tyr Thr Glu Leu Cys Arg Pro Ser Lys Arg Arg Met Gln Ala  
 145 150 155 160  
 Val Ala Asn Val Ser Ile Gly Ala Met Phe Cys Met Tyr Gly Leu Thr  
 165 170 175  
 Ala Thr Phe Gly Tyr Leu Thr Phe Tyr Ser Ser Val Lys Ala Glu Met  
 180 185 190  
 Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu  
 195 200 205  
 Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro  
 210 215 220  
 Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser  
 225 230 235 240  
 Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn  
 245 250 255  
 Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile  
 260 265 270  
 Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Cys Ile  
 275 280 285 288

<210> 1075  
 <211> 273  
 <212> Amino acid  
 <213> Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> X = any amino acid or stop code

<400> 1075  
 Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser  
 1 5 10 15  
 Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys  
 20 25 30  
 Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu  
 35 40 45  
 Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys  
 50 55 60  
 Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe  
 65 70 75 80  
 Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val  
 85 90 95  
 Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe  
 100 105 110  
 Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn  
 115 120 125  
 Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu  
 130 135 140  
 Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Leu Gly Trp His Cys  
 145 150 155 160  
 Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile  
 165 170 175  
 Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe  
 180 185 190  
 Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg  
 195 200 205  
 Ile Gln Gln Leu Lys Gln Leu Leu Glu Asp Ser Thr Ser Gly Glu Asp  
 210 215 220  
 Arg Ser Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys  
 225 230 235 240  
 Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys  
 245 250 255  
 Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser  
 260 265 270  
 Glu  
 273

<210> 1076  
 <211> 815  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(815)  
 <223> X = any amino acid or stop code

<400> 1076  
 Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1	5	10	15
Leu Pro Gly	Ser Gly Ser Val Leu Leu Asp Pro Cys Thr Gly Ser Thr		
	20	25	30
Ile Ser Glu Thr Thr Ser Glu Ala Trp Ser Val Glu Val Leu Pro Ser			
	35	40	45
Asp Ser Glu Ala Pro Asp Leu Lys Gln Glu Glu Arg Leu Gln Glu Leu			
	50	55	60
Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Thr Asp Val Arg			
	65	70	75
Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly			
	85	90	95
Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg			
	100	105	110
Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro			
	115	120	125
Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys			
	130	135	140
Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu			
	145	150	155
Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser			
	165	170	175
Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala			
	180	185	190
Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro			
	195	200	205
Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu			
	210	215	220
Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala			
	225	230	235
Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg			
	245	250	255
Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser			
	260	265	270
Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Glu Leu Pro Pro Ala Ala			
	275	280	285
Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser			
	290	295	300
Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp			
	305	310	315
Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg			
	325	330	335
Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu			
	340	345	350
Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr			
	355	360	365
Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala			
	370	375	380
Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro			
	385	390	395
Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp			
	405	410	415
Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile			
	420	425	430
Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln			
	435	440	445
Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Lys Leu Arg Leu Ala			
	450	455	460
Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr			
	465	470	475
Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val			
	485	490	495
Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys			
	500	505	510
Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe			

515				520				525							
Asp	Asn	Arg	Thr	Cys	Arg	Lys	Leu	Leu	Ala	Ser	Ile	Ala	Glu	Asp	Tyr
530				535				540							
Arg	Lys	Arg	Ala	Pro	Tyr	Ile	Ala	Tyr	Leu	Thr	Arg	Cys	Arg	Gln	Gly
545				550				555				560			
Leu	Gln	Thr	Thr	Gln	Ala	His	Leu	Glu	Arg	Leu	Leu	Gln	Arg	Val	Leu
565				570				575							
Arg	Asp	Lys	Glu	Val	Ala	Asn	Arg	Tyr	Phe	Thr	Thr	Val	Cys	Val	Arg
580				585				590							
Leu	Leu	Leu	Glu	Ser	Lys	Glu	Lys	Ile	Arg	Glu	Phe	Ile	Gln	Asp	
595				600				605							
Phe	Gln	Lys	Leu	Thr	Ala	Ala	Asp	Asp	Lys	Thr	Ala	Gln	Val	Glu	Asp
610				615				620							
Phe	Leu	Gln	Phe	Leu	Tyr	Gly	Ala	Met	Ala	Gln	Asp	Val	Ile	Trp	Gln
625				630				635				640			
Asn	Ala	Ser	Glu	Glu	Gln	Leu	Gln	Asp	Ala	Gln	Leu	Ala	Ile	Glu	Arg
645				650				655							
Ser	Val	Met	Asn	Arg	Ile	Phe	Lys	Leu	Ala	Phe	Tyr	Pro	Asn	Gln	Asp
660				665				670							
Gly	Asp	Ile	Leu	Arg	Asp	Gln	Val	Leu	His	Glu	His	Ile	Gln	Arg	Leu
675				680				685							
Ser	Lys	Val	Val	Thr	Ala	Asn	His	Arg	Ala	Leu	Gln	Ile	Pro	Glu	Val
690				695				700							
Tyr	Leu	Arg	Glu	Ala	Pro	Trp	Pro	Ser	Ala	Gln	Ser	Glu	Ile	Arg	Thr
705				710				715				720			
Ile	Ser	Ala	Tyr	Lys	Thr	Pro	Arg	Asp	Lys	Val	Gln	Cys	Ile	Leu	Arg
725				730				735							
Met	Cys	Ser	Thr	Ile	Met	Asn	Leu	Leu	Ser	Leu	Ala	Asn	Glu	Asp	Ser
740				745				750							
Val	Pro	Gly	Ala	Asp	Asp	Phe	Val	Pro	Val	Leu	Val	Phe	Val	Leu	Ile
755				760				765							
Lys	Ala	Asn	Pro	Pro	Cys	Leu	Leu	Ser	Thr	Val	Gln	Tyr	Ile	Ser	Ser
770				775				780							
Phe	Tyr	Ala	Ser	Cys	Leu	Ser	Gly	Glu	Glu	Ser	Tyr	Trp	Trp	Met	Gln
785				790				795				800			
Phe	Thr	Ala	Ala	Val	Glu	Phe	Ile	Lys	Thr	Ile	Asp	Asp	Arg	Lys	
805				810				815							

&lt;210&gt; 1077

&lt;211&gt; 256

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

Trp	Pro	Met	Ser	Leu	Ala	Arg	Gly	His	Gly	Asp	Thr	Ala	Ala	Ser	Thr
1				5					10					15	
Ala	Ala	Pro	Leu	Ser	Glu	Glu	Gly	Glu	Val	Thr	Ser	Gly	Leu	Gln	Ala
			20					25					30		
Leu	Ala	Val	Glu	Asp	Thr	Gly	Gly	Pro	Ser	Ala	Ser	Ala	Gly	Lys	Ala
		35					40					45			
Glu	Asp	Glu	Gly	Glu	Gly	Gly	Arg	Glu	Glu	Thr	Glu	Arg	Glu	Gly	Ser
	50					55				60					
Gly	Gly	Glu	Glu	Ala	Gln	Gly	Glu	Val	Pro	Ser	Ala	Gly	Gly	Glu	Glu
	65				70					75				80	
Pro	Ala	Glu	Glu	Asp	Ser	Glu	Asp	Trp	Cys	Val	Pro	Cys	Ser	Asp	Glu
			85					90						95	
Glu	Val	Glu	Leu	Pro	Ala	Asp	Gly	Gln	Pro	Trp	Met	Pro	Pro	Pro	Ser
		100					105					110			
Glu	Ile	Gln	Arg	Leu	Tyr	Glu	Leu	Leu	Ala	Ala	His	Gly	Thr	Leu	Glu

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      115      120      125
Leu Gln Ala Glu Ile Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln
  130      135      140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu
145      150      155      160
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro
      165      170      175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser
      180      185      190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser
      195      200      205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly
210      215      220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro
225      230      235      240
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr
      245      250      255 256

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<210> 1078
<211> 590
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (590)
<223> X = any amino acid or stop code

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<400> 1078
Leu Gly Arg Gly Thr Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
  1      5      10      15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr
      20      25      30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr
      35      40      45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln
      50      55      60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu
      65      70      75      80
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr
      85      90      95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys
      100      105      110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu
      115      120      125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly
      130      135      140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser
145      150      155      160
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu
      165      170      175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu
      180      185      190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr
      195      200      205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly
210      215      220

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Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro
225          230          235          240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile
          245          250          255
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met
          260          265          270
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val
          275          280          285
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu
          290          295          300
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val Gly Ser Leu Asn His
305          310          315          320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His
          325          330          335
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn
          340          345          350
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val
          355          360          365
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu
          370          375          380
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala
385          390          395          400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg
          405          410          415
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln
          420          425          430
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met
          435          440          445
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu
          450          455          460
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr
465          470          475          480
Gln Gln Ile Leu Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala
          485          490          495
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala
          500          505          510
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser
          515          520          525
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val
          530          535          540
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met
545          550          555          560
Arg Gln Gln Pro Thr Ser Thr Thr Ser Ser Arg Lys Ser Lys Gln His
          565          570          575
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg
          580          585          590

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&lt;210&gt; 1079

&lt;211&gt; 904

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(904)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15
Pro Asp Glu Asp Ile Thr Ala Ser Ser Gln Trp Ser Glu Ser Thr Ala			
20	25	30	
Ala Lys Tyr Gly Arg Leu Asp Ser Glu Glu Gly Asp Gly Ala Trp Cys			
35	40	45	
Pro Glu Ile Pro Val Glu Pro Asp Asp Leu Lys Glu Phe Leu Gln Ile			
50	55	60	
Asp Leu His Thr Leu His Phe Ile Thr Leu Val Gly Thr Gln Gly Arg			
65	70	75	80
His Ala Gly Gly His Gly Ile Glu Phe Ala Pro Met Tyr Lys Ile Asn			
85	90	95	
Tyr Ser Arg Asp Gly Thr Arg Trp Ile Ser Trp Arg Asn Arg His Gly			
100	105	110	
Lys Gln Val Leu Asp Gly Asn Ser Asn Pro Tyr Asp Ile Phe Leu Lys			
115	120	125	
Asp Leu Glu Pro Pro Ile Val Ala Arg Phe Val Arg Phe Ile Pro Val			
130	135	140	
Thr Asp His Ser Met Asn Val Cys Met Arg Val Glu Leu Tyr Gly Cys			
145	150	155	160
Val Trp Leu Asp Gly Leu Val Ser Tyr Asn Ala Pro Ala Gly Gln Gln			
165	170	175	
Phe Val Leu Pro Gly Gly Ser Ile Ile Tyr Leu Asn Asp Ser Val Tyr			
180	185	190	
Asp Gly Ala Val Gly Tyr Ser Met Thr Glu Gly Leu Gly Gln Leu Thr			
195	200	205	
Asp Gly Val Ser Gly Leu Asp Asp Phe Thr Gln Thr His Glu Tyr His			
210	215	220	
Val Trp Pro Gly Tyr Asp Tyr Val Gly Trp Arg Asn Glu Ser Ala Thr			
225	230	235	240
Asn Gly Tyr Ile Glu Ile Met Phe Glu Phe Asp Arg Ile Arg Asn Phe			
245	250	255	
Thr Thr Met Lys Val His Cys Asn Asn Met Phe Ala Lys Gly Val Lys			
260	265	270	
Ile Phe Lys Glu Val Gln Cys Tyr Phe Arg Ser Glu Ala Ser Glu Trp			
275	280	285	
Glu Pro Asn Ala Ile Ser Phe Pro Leu Val Leu Asp Asp Val Asn Pro			
290	295	300	
Ser Ala Arg Phe Val Thr Val Pro Leu His His Arg Met Ala Ser Ala			
305	310	315	320
Ile Lys Cys Gln Tyr His Phe Ala Asp Thr Trp Met Met Phe Ser Glu			
325	330	335	
Ile Thr Phe Gln Ser Asp Ala Ala Met Tyr Asn Asn Ser Glu Ala Leu			
340	345	350	
Pro Thr Ser Pro Met Ala Pro Thr Thr Tyr Asp Pro Met Leu Lys Val			
355	360	365	
Asp Asp Ser Asn Thr Arg Ile Leu Ile Gly Cys Leu Val Ala Ile Ile			
370	375	380	
Phe Ile Leu Leu Ala Ile Ile Val Ile Ile Leu Trp Arg Gln Phe Trp			
385	390	395	400
Gln Lys Met Leu Glu Lys Ala Ser Arg Arg Met Leu Asp Asp Glu Met			
405	410	415	
Thr Val Ser Leu Ser Leu Pro Ser Asp Ser Ser Met Phe Asn Asn Asn			
420	425	430	
Arg Ser Ser Ser Pro Ser Glu Gln Gly Ser Asn Ser Thr Tyr Asp Arg			
435	440	445	
Ile Phe Pro Leu Arg Pro Asp Tyr Gln Glu Pro Ser Arg Leu Ile Arg			
450	455	460	
Lys Leu Pro Glu Phe Ala Pro Gly Glu Glu Glu Ser Gly Cys Ser Gly			
465	470	475	480
Val Val Lys Pro Val Gln Pro Ser Gly Pro Glu Gly Val Pro His Tyr			
485	490	495	
Ala Glu Ala Asp Ile Val Asn Leu Gln Gly Val Thr Gly Gly Asn Thr			
500	505	510	
Tyr Ser Val Pro Ala Val Thr Met Asp Leu Leu Ser Gly Lys Arg Cys			

515										520					525							
Gly	Cys	Gly	Arg	Glu	Phe	Pro	Pro	Gly	Lys	Leu	Leu	Thr	Phe	Lys	Glu							
530										535					540							
Lys	Leu	Gly	Glu	Gly	Gln	Phe	Gly	Glu	Val	His	Leu	Cys	Glu	Val	Glu							
545										550					555					560		
Gly	Met	Glu	Lys	Phe	Lys	Asp	Lys	Asp	Phe	Ala	Leu	Asp	Val	Ser	Ala							
565										570					575							
Asn	Gln	Pro	Val	Leu	Val	Ala	Val	Lys	Met	Leu	Arg	Ala	Asp	Ala	Asn							
580										585					590							
Lys	Asn	Ala	Arg	Asn	Asp	Phe	Leu	Lys	Glu	Ile	Lys	Ile	Met	Ser	Arg							
595										600					605							
Leu	Lys	Asp	Pro	Asn	Ile	Ile	His	Leu	Leu	Ser	Val	Cys	Ile	Thr	Asp							
610										615					620							
Asp	Pro	Leu	Cys	Met	Ile	Thr	Glu	Tyr	Met	Glu	Asn	Gly	Asp	Leu	Asn							
625										630					635					640		
Gln	Phe	Leu	Ser	Arg	His	Glu	Pro	Pro	Asn	Ser	Ser	Ser	Ser	Asp	Val							
645										650					655							
Arg	Thr	Val	Ser	Tyr	Thr	Asn	Leu	Lys	Phe	Met	Ala	Thr	Gln	Ile	Ala							
660										665					670							
Ser	Gly	Met	Lys	Tyr	Leu	Ser	Ser	Leu	Asn	Phe	Val	His	Arg	Asp	Leu							
675										680					685							
Ala	Thr	Arg	Asn	Cys	Leu	Val	Gly	Lys	Asn	Tyr	Thr	Ile	Lys	Ile	Ala							
690										695					700							
Asp	Phe	Gly	Met	Ser	Arg	Asn	Leu	Tyr	Ser	Gly	Asp	Tyr	Tyr	Arg	Ile							
705										710					715					720		
Gln	Gly	Arg	Ala	Val	Leu	Pro	Ile	Arg	Trp	Met	Ser	Trp	Glu	Ser	Ile							
725										730					735							
Leu	Leu	Gly	Lys	Phe	Thr	Thr	Ala	Ser	Asp	Val	Trp	Ala	Phe	Gly	Val							
740										745					750							
Thr	Leu	Trp	Glu	Thr	Phe	Thr	Phe	Cys	Gln	Arg	Lys	Gly	Pro	Tyr	Ser							
755										760					765							
Gln	Leu	Ser	Asp	Glu	Thr	Gly	Tyr	Xaa	Arg	Asn	Thr	Gly	Glu	Phe	Phe							
770										775					780							
Pro	Arg	Pro	Lys	Gly	Gly	Gln	Thr	Tyr	Leu	Pro	Ser	Thr	Ser	Pro	Phe							
785										790					795					800		
Val	Pro	Asp	Ser	Cys	Val	Ile	Lys	Leu	Met	Leu	Ser	Cys	Trp	Arg	Arg							
805										810					815							
Asp	Thr	Lys	Asn	Arg	Pro	Ser	Phe	Gln	Glu	Ile	His	Leu	Leu	Leu	Leu							
820										825					830							
Gln	Gln	Gly	Asp	Glu	Arg	Cys	Cys	Gln	Cys	Leu	Ala	Met	Phe	Leu	Arg							
835										840					845							
Leu	Arg	Ser	Ser	Leu	Gln	Asp	Leu	Pro	Leu	Thr	His	Ala	Tyr	Ala	Thr							
850										855					860							
Pro	Ser	Gly	His	Leu	Met	Lys	Leu	Arg	Asp	Arg	Gly	Leu	Phe	Ala	Leu							
865										870					875					880		
Pro	Ser	Phe	Pro	Gly	His	Pro	His	Ser	Leu	Pro	Leu	Thr	His	Ile	Tyr							
885										890					895							
Phe	Phe	Phe	Phe	Thr	Leu	Lys	Asn															
900										904												

&lt;210&gt; 1080

&lt;211&gt; 304

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1080

Cys	Ser	Ala	Ser	Pro	Leu	Arg	Pro	Gly	Leu	Leu	Ala	Pro	Asp	Leu	Leu
1				5					10					15	
Tyr	Leu	Pro	Gly	Ala	Gly	Gln	Pro	Arg	Arg	Pro	Glu	Ala	Glu	Pro	Gly

				20					25					30		
Gln	Lys	Pro	Val	Val	Pro	Thr	Leu	Tyr	Val	Thr	Glu	Ala	Glu	Ala	His	
		35					40					45				
Ser	Pro	Ala	Leu	Pro	Gly	Leu	Ser	Gly	Pro	Gln	Pro	Lys	Trp	Val	Glu	
	50					55					60					
Val	Glu	Glu	Thr	Ile	Glu	Val	Arg	Val	Lys	Lys	Met	Gly	Pro	Gln	Gly	
	65				70					75					80	
Val	Ser	Pro	Thr	Thr	Glu	Val	Pro	Arg	Ser	Ser	Ser	Gly	His	Leu	Phe	
				85					90					95		
Thr	Leu	Pro	Gly	Ala	Thr	Pro	Gly	Gly	Asp	Pro	Asn	Ser	Asn	Asn	Ser	
			100					105					110			
Asn	Asn	Lys	Leu	Leu	Ala	Gln	Glu	Ala	Trp	Ala	Gln	Gly	Thr	Ala	Met	
		115					120					125				
Val	Gly	Val	Arg	Glu	Pro	Leu	Val	Phe	Arg	Val	Asp	Ala	Arg	Gly	Ser	
	130				135						140					
Val	Asp	Trp	Ala	Ala	Ser	Gly	Met	Gly	Ser	Leu	Glu	Glu	Glu	Gly	Thr	
	145				150					155					160	
Met	Glu	Glu	Ala	Gly	Glu	Glu	Glu	Gly	Glu	Asp	Gly	Asp	Ala	Phe	Val	
				165					170					175		
Thr	Glu	Glu	Ser	Gln	Asp	Thr	His	Ser	Leu	Gly	Asp	Arg	Asp	Pro	Lys	
			180					185					190			
Ile	Leu	Thr	His	Asn	Gly	Arg	Met	Leu	Thr	Leu	Ala	Asp	Leu	Glu	Asp	
		195					200					205				
Tyr	Val	Pro	Gly	Glu	Gly	Glu	Thr	Phe	His	Cys	Gly	Gly	Pro	Gly	Pro	
	210				215						220					
Gly	Ala	Pro	Asp	Asp	Pro	Pro	Cys	Glu	Val	Ser	Val	Ile	Gln	Arg	Glu	
	225				230					235					240	
Ile	Gly	Glu	Pro	Thr	Val	Gly	Ser	Leu	Cys	Cys	Ser	Ala	Trp	Gly	Met	
				245					250					255		
His	Trp	Val	Pro	Glu	Ala	Leu	Ser	Ala	Ser	Leu	Gly	Leu	Ser	Pro	Met	
			260					265					270			
Gly	Arg	His	His	Arg	Asp	Pro	Arg	Ser	Val	Ala	Leu	Arg	Ala	Pro	Pro	
		275					280					285				
Ser	Ser	Cys	Gly	Arg	Pro	Arg	Leu	Gly	Leu	Trp	Ala	Val	Leu	Pro	Gly	
	290					295					300				305	

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<210> 1081
<211> 139
<212> Amino acid
<213> Homo sapiens
```

<400> 1081															
Gln 1	Gly	Leu	Ala	Ala 5	Glu	Phe	Leu	Gln	Val 10	Pro	Ala	Val	Thr	Arg 15	Ala
Tyr	Thr	Ala	Ala 20	Cys	Val	Leu	Thr	Thr 25	Ala	Ala	Val	Gln	Leu 30	Glu	Leu
Leu	Ser	Pro	Phe 35	Gln	Leu	Tyr	Phe 40	Asn	Pro	His	Leu	Val 45	Phe	Arg	Lys
Phe 50	Gln	Ala	Pro	Phe	Leu	Pro 55	Trp	Ala	Leu	Met 60	Gly	Phe	Ser	Leu	Leu
Leu 65	Gly	Asn	Ser	Ile 70	Leu	Val	Asp	Leu	Leu	Gly 75	Ile	Ala	Val	Gly 80	His
Ile	Tyr	Tyr	Phe 85	Leu	Glu	Asp	Val	Phe 90	Pro	Asn	Gln	Pro	Gly 95	Gly	Lys
Arg	Leu	Leu	Gln 100	Thr	Pro	Gly	Phe 105	Leu	Gly	Leu	Gln	Ser	Ser 110	Lys	Ala
Pro	Ala	Gly	Ser	Ser	Leu	Thr	Ile	Trp	Thr	Gln	Gln	Ser	Gln	Gly	Gly



115 120 125  
 Pro Gly Thr Ala Gly Glu Leu Ala Ala Pro Ser  
 130 135 139

<210> 1082  
 <211> 1105  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(1105)  
 <223> X = any amino acid or stop code

<400> 1082  
 Glu Lys Asn Ala Leu Glu Pro Thr Val Tyr Phe Gly Met Gly Val Xaa  
 1 5 10 15  
 Ala Pro Gln Val Pro Arg Phe Gln Gln Arg Ile Thr Gly Tyr Gln Tyr  
 20 25 30  
 Tyr Leu Gln Leu Arg Lys Asp Ile Trp Glu Glu Gly Ile Pro Cys Thr  
 35 40 45  
 Leu Glu Gln Pro Ile His Leu Ala Gly Leu Ala Val Gln Ala Ile Phe  
 50 55 60  
 Gly Asp Phe Asp Gln Tyr Glu Ser Gln Asp Phe Leu Gln Lys Phe Ala  
 65 70 75 80  
 Leu Phe Pro Val Gly Trp Leu Gln Asp Glu Lys Val Leu Glu Glu Ala  
 85 90 95  
 Thr Gln Lys Val Ala Leu Leu His Gln Lys Tyr Arg Gly Leu Thr Ala  
 100 105 110  
 Pro Asp Ala Glu Met Leu Tyr Met Gln Glu Val Glu Arg Met Asp Gly  
 115 120 125  
 Tyr Gly Glu Glu Ser Tyr Pro Ala Lys Asp Ser Gln Gly Ser Asp Ile  
 130 135 140  
 Ser Ile Gly Ala Cys Leu Glu Gly Ile Phe Val Lys His Lys Asn Gly  
 145 150 155 160  
 Arg His Pro Val Val Phe Arg Trp His Asp Ile Ala Asn Met Ser His  
 165 170 175  
 Asn Lys Ser Phe Phe Ala Leu Glu Leu Ala Asn Lys Glu Glu Thr Ile  
 180 185 190  
 Gln Phe Gln Thr Glu Asp Met Glu Thr Ala Lys Tyr Ile Trp Arg Leu  
 195 200 205  
 Cys Val Ala Arg His Lys Phe Tyr Arg Leu Asn Gln Cys Asn Leu Gln  
 210 215 220  
 Thr Gln Thr Val Thr Val Asn Pro Ile Arg Arg Arg Ser Ser Ser Arg  
 225 230 235 240  
 Met Ser Leu Pro Lys Pro Gln Pro Tyr Val Met Pro Pro Pro Pro Gln  
 245 250 255  
 Leu His Tyr Asn Gly His Tyr Thr Glu Pro Tyr Ala Ser Ser Gln Asp  
 260 265 270  
 Asn Leu Phe Val Pro Asn Gln Glu Gly Tyr Tyr Gly Gln Phe Gln Thr  
 275 280 285  
 Ser Leu Asn Arg Ala Gln Ile Asp Phe Asn Gly Arg Ile Arg Asn Ala  
 290 295 300  
 Ser Val Tyr Ser Ala His Ser Thr Asn Ser Leu Asn Asn Pro Gln Pro  
 305 310 315 320  
 Tyr Leu Gln Pro Ser Pro Met Ser Ser Asn Pro Ser Ile Thr Gly Ser  
 325 330 335  
 Asp Val Met Arg Pro Asp Tyr Leu Pro Ser His Arg His Ser Ala Val  
 340 345 350

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys  
 355 360 365  
 Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu  
 370 375 380  
 Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala  
 385 390 395 400  
 Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser  
 405 410 415  
 Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser  
 420 425 430  
 Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala  
 435 440 445  
 Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr  
 450 455 460  
 Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro  
 465 470 475 480  
 Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His  
 485 490 495  
 Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His  
 500 505 510  
 His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser  
 515 520 525  
 Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu  
 530 535 540  
 His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu  
 545 550 555 560  
 Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val  
 565 570 575  
 Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu  
 580 585 590  
 Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly  
 595 600 605  
 His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu  
 610 615 620  
 Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro  
 625 630 635 640  
 Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro  
 645 650 655  
 Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro  
 660 665 670  
 Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro  
 675 680 685  
 Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu  
 690 695 700  
 Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg  
 705 710 715 720  
 Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser  
 725 730 735  
 Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys  
 740 745 750  
 Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala  
 755 760 765  
 Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys  
 770 775 780  
 Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu  
 785 790 795 800  
 Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu  
 805 810 815  
 Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu  
 820 825 830  
 Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val  
 835 840 845  
 Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn  
 850 855 860

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile  
 865 870 875 880  
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met  
 885 890 895  
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu  
 900 905 910  
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser  
 915 920 925  
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe  
 930 935 940  
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His  
 945 950 955 960  
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp  
 965 970 975  
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr  
 980 985 990  
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp  
 995 1000 1005  
 Pro Gln Ser Pro Asn Pro Pro Leu Leu Val His Cys Ser Ala Gly Val  
 1010 1015 1020  
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu  
 1025 1030 1035 1040  
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg  
 1045 1050 1055  
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val  
 1060 1065 1070  
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu  
 1075 1080 1085  
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr  
 1090 1095 1100  
 Ala  
 1105

&lt;210&gt; 1083

&lt;211&gt; 99

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (99)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1083

Arg Lys Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu  
 1 5 10 15  
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu  
 20 25 30  
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr  
 35 40 45  
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu  
 50 55 60  
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro  
 65 70 75 80  
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp  
 85 90 95  
 Asp Val Glu  
 99

<210> 1084  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(206)  
 <223> X = any amino acid or stop code

<400> 1084  
 Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser  
 1 5 10 15  
 Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His  
 20 25 30  
 Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe  
 35 40 45  
 Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val  
 50 55 60  
 Pro Ser Cys Ala Phe Gly Phe Leu Ser Cys Phe Pro Leu Leu Asn Ser  
 65 70 75 80  
 Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu  
 85 90 95  
 Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp  
 100 105 110  
 Arg Gly Ser Leu Gln Pro Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu  
 115 120 125  
 Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val  
 130 135 140  
 Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val  
 145 150 155 160  
 Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro  
 165 170 175  
 Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro  
 180 185 190  
 Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly  
 195 200 205 206

<210> 1085  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1085  
 Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu  
 1 5 10 15  
 Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg  
 20 25 30  
 Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln  
 35 40 45  
 Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile  
 50 55 60  
 Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile  
 65 70 75 80

Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val  
                             85                            90                            95  
 Ser Ile Ser  
                             99

<210> 1086  
 <211> 53  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1086  
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His  
   1                            5                            10                            15  
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln  
                             20                            25                            30  
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp  
                             35                            40                            45  
 Thr Val Pro Asp Ser  
                             50                            53

<210> 1087  
 <211> 250  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1087  
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu  
   1                            5                            10                            15  
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro  
                             20                            25                            30  
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly  
                             35                            40                            45  
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser  
                             50                            55                            60  
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys  
   65                            70                            75                            80  
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala  
                             85                            90                            95  
 Leu Leu Ile Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu  
                             100                            105                            110  
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys  
                             115                            120                            125  
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys  
                             130                            135                            140  
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr  
  145                            150                            155                            160  
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile  
                             165                            170                            175  
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg  
                             180                            185                            190  
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp  
                             195                            200                            205  
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr  
  210                            215                            220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn  
 225 230 235 240  
 Lys Arg Trp Gly Pro His Tyr Asn Gly Leu  
 245 250

<210> 1088  
 <211> 455  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1088  
 Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys  
 1 5 10 15  
 Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys  
 20 25 30  
 Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp  
 35 40 45  
 Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu  
 50 55 60  
 Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu  
 65 70 75 80  
 Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly  
 85 90 95  
 Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr  
 100 105 110  
 Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu  
 115 120 125  
 Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Glu Pro Asp Ser Ala Ala  
 130 135 140  
 Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg  
 145 150 155 160  
 Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu  
 165 170 175  
 Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu  
 180 185 190  
 Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu  
 195 200 205  
 Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu  
 210 215 220  
 Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser  
 225 230 235 240  
 Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val  
 245 250 255  
 Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser  
 260 265 270  
 Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly  
 275 280 285  
 Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe  
 290 295 300  
 Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala  
 305 310 315 320  
 Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala  
 325 330 335  
 Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr  
 340 345 350  
 Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr  
 355 360 365  
 His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His  
 370 375 380

```

Asn Glu Glu Ser Val Arg Gln Ala Thr Lys Gly Gln Ala Gly Tyr Val
385              390              395              400
Val Tyr Lys Ser Ile Pro Tyr Gly Ser Leu Glu Glu Val Ile Pro Tyr
              405              410              415
Leu Ile Arg Arg Ala Gln Glu Asn Arg Ser Val Leu Gln Gly Ala Arg
              420              425              430
Arg Glu Gln Glu Leu Leu Ser Gln Lys Leu Trp Arg Arg Leu Leu Pro
              435              440              445
Gly Cys Arg Arg Ile Pro His
              450              455

```

&lt;210&gt; 1089

&lt;211&gt; 243

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(243)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1089

```

Val Val Glu Phe Gly Glu Met Ser Thr Ala Arg Ala Pro Glu Gly Leu
 1              5              10              15
Arg Trp Phe Gln Leu Tyr Val His Pro Asp Leu Gln Leu Asn Lys Gln
              20              25              30
Leu Ile Gln Arg Val Glu Ser Leu Gly Phe Lys Ala Leu Val Ile Thr
              35              40              45
Leu Asp Thr Pro Val Cys Gly Asn Arg Arg His Asp Ile Arg Asn Gln
              50              55              60
Leu Arg Arg Asn Leu Thr Leu Thr Asp Leu Gln Ser Pro Lys Lys Gly
              65              70              75              80
Asn Ala Ile Pro Tyr Phe Gln Met Thr Pro Ile Ser Thr Ser Leu Cys
              85              90              95
Trp Asn Asp Leu Ser Trp Phe Gln Ser Ile Thr Arg Leu Pro Ile Ile
              100              105              110
Leu Lys Gly Ile Leu Thr Lys Glu Asp Ala Glu Leu Ala Val Lys His
              115              120              125
Asn Val Gln Gly Ile Ile Val Ser Asn His Gly Gly Arg Gln Leu Asp
              130              135              140
Glu Val Leu Ala Ser Ile Asp Ala Leu Thr Glu Val Gly Ala Ala Glu
              145              150              155              160
Xaa Gly Asn Met Lys Tyr Tyr Leu Asp Ala Gly Val Arg Thr Gly Asn
              165              170              175
Asp Val Gln Lys Ala Leu Ala Leu Gly Ala Lys Cys Ile Phe Leu Gly
              180              185              190
Arg Pro Ile Leu Trp Gly Leu Ala Cys Lys Gly Glu His Gly Val Lys
              195              200              205
Glu Val Leu Asn Ile Leu Thr Asn Glu Phe His Thr Ser Met Ala Leu
              210              215              220
Thr Gly Cys Arg Ser Val Ala Glu Ile Asn Arg Asn Leu Val Gln Phe
              225              230              235              240
Ser Arg Leu
              243

```

&lt;210&gt; 1090

&lt;211&gt; 90

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(90)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1090

```

Phe Phe Leu Arg Trp Ser Phe Thr Leu Leu Pro Arg Leu Glu Cys Gln
 1           5           10           15
Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Xaa
          20           25           30
Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Gly Leu Gln Val Pro Thr
          35           40           45
Ser Met Leu Gly Xaa Phe Phe Cys Ile Phe Ser Arg Glu Gly Ile Ser
          50           55           60
Pro Cys Trp Pro Gly Trp Ser Gln Thr Pro Lys Val Ile His Leu Pro
          65           70           75           80
Arg Pro Pro Arg Val Leu Arg Leu Gln Ala
          85           90

```

&lt;210&gt; 1091

&lt;211&gt; 259

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(259)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1091

```

Leu Leu Cys Phe Val His Thr Ala Leu Gln Ser Phe Gln Gly Glu Leu
 1           5           10           15
Tyr Glu Pro His Val Val Ile Ala Ile Val Val Phe Leu Val Lys Leu
          20           25           30
Gly Ile Cys Lys Xaa Arg Ala Ser Trp Arg Lys Lys Val Thr Leu Val
          35           40           45
Val Lys Xaa Ser Leu Lys Ile Cys Phe Thr Lys Tyr Gly Ser Cys Tyr
          50           55           60
His Pro Gly Glu Lys Ser Ser Ser Trp Leu Phe Asn Xaa Arg Met Val
          65           70           75           80
Asn Asp Cys Leu Ala Thr Ser Cys Ser Asn Arg Ser Phe Val Ile Gln
          85           90           95
Gln Ile Pro Ser Ser Asn Leu Phe Met Val Val Val Asp Ser Ser Cys
          100          105          110
Leu Cys Glu Ser Val Ala Pro Ile Thr Met Ala Pro Ile Glu Ile Arg
          115          120          125
Tyr Ile Leu Leu Cys Ala Gly Pro Leu Thr Thr Thr Glu Thr Ser Lys
          130          135          140
Gly Tyr Gln Trp Xaa Gly Asn Leu Gly Glu Lys Tyr Xaa Arg Arg Lys
          145          150          155          160
Ile Thr Ser Phe Pro Leu Leu Glu Arg Glu Ser Ser Xaa Glu Ser Cys
          165          170          175
His Cys Gln Ile Leu Thr Ser Glu Met Gln Ser Arg Lys Lys Gln Ser

```



```

      180      185      190
Leu Glu Thr Cys Leu Asn Tyr Ser Gln His Asn Glu Ser Leu Lys Cys
      195      200      205
Glu Arg Leu Lys Ala Gln Lys Ile Arg Arg Arg Pro Glu Ser Cys His
      210      215      220
Gly Phe His Pro Glu Glu Asn Ala Arg Glu Cys Gly Gly Ala Pro Ser
      225      230      235      240
Leu Gln Ala Gln Thr Val Leu Leu Leu Leu Pro Leu Leu Leu Met Leu
      245      250      255
Phe Ser Arg
      259

```

```

<210> 1092
<211> 117
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

      <400> 1092
Val Pro Ser Pro Thr His Asp Pro Lys Pro Ala Glu Ala Pro Met Pro
  1          5          10          15
Ala Xaa Pro Ala Pro Pro Gly Pro Ala Ser Pro Gly Gly Ala Leu Glu
      20      25      30
Pro Pro Ala Ala Ala Arg Ala Gly Gly Ser Pro Thr Ala Val Arg Ser
      35      40      45
Ile Leu Thr Lys Glu Arg Arg Pro Glu Gly Gly Tyr Lys Ala Val Trp
      50      55      60
Phe Gly Glu Asp Ile Gly Thr Glu Ala Asp Val Val Val Leu Asn Ala
      65      70      75      80
Pro Thr Leu Asp Val Asp Gly Ala Ser Asp Ser Gly Ser Gly Asp Glu
      85      90      95
Gly Glu Gly Ala Gly Arg Gly Gly Gly Pro Tyr Asp Ala Pro Gly Gly
      100      105      110
Asp Asp Ser Tyr Ile
      115      117

```

```

<210> 1093
<211> 763
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1093
Leu Ile Ser Leu Ala Gly Pro Thr Asp Asp Ile Gln Ser Thr Gly Pro
  1          5          10          15
Gln Val His Ala Leu Asn Ile Leu Arg Ala Leu Phe Arg Asp Thr Arg
      20      25      30
Leu Gly Glu Asn Ile Ile Pro Tyr Val Ala Asp Gly Ala Lys Ala Ala
      35      40      45
Ile Leu Gly Phe Thr Ser Pro Val Trp Ala Val Arg Asn Ser Ser Thr
      50      55      60

```

Leu Leu Phe Ser Ala Leu Ile Thr Arg Ile Phe Gly Val Lys Arg Ala  
 65 70 75 80  
 Lys Asp Glu His Ser Lys Thr Asn Arg Met Thr Gly Arg Glu Phe Phe  
 85 90 95  
 Ser Arg Phe Pro Glu Leu Tyr Pro Phe Leu Leu Lys Gln Leu Glu Thr  
 100 105 110  
 Val Ala Asn Thr Val Asp Ser Asp Met Gly Glu Pro Asn Arg His Pro  
 115 120 125  
 Ser Met Phe Leu Leu Leu Leu Val Leu Glu Arg Leu Tyr Ala Ser Pro  
 130 135 140  
 Met Asp Gly Thr Ser Ser Ala Leu Ser Met Gly Pro Phe Val Pro Phe  
 145 150 155 160  
 Ile Met Arg Cys Gly His Ser Pro Val Tyr His Ser Arg Glu Met Ala  
 165 170 175  
 Ala Arg Ala Leu Val Pro Phe Val Met Ile Asp His Ile Pro Asn Thr  
 180 185 190  
 Ile Arg Thr Leu Leu Ser Thr Leu Pro Ser Cys Thr Asp Gln Cys Phe  
 195 200 205  
 Arg Gln Asn His Ile His Gly Thr Leu Leu Gln Val Phe His Leu Val  
 210 215 220  
 Gln Ala Tyr Ser Asp Ser Lys His Gly Thr Asn Ser Asp Phe Gln His  
 225 230 235 240  
 Glu Leu Thr Asp Ile Thr Val Cys Thr Lys Ala Lys Leu Trp Leu Ala  
 245 250 255  
 Lys Arg Gln Asn Pro Cys Leu Val Thr Arg Ala Val Tyr Ile Asp Ile  
 260 265 270  
 Leu Phe Leu Leu Thr Cys Cys Leu Asn Arg Ser Ala Lys Asp Asn Gln  
 275 280 285  
 Pro Val Leu Glu Ser Leu Gly Phe Trp Glu Glu Val Arg Gly Ile Ile  
 290 295 300  
 Ser Gly Ser Glu Leu Ile Thr Gly Phe Pro Trp Ala Phe Lys Val Pro  
 305 310 315 320  
 Gly Leu Pro Gln Tyr Leu Gln Ser Leu Thr Arg Leu Ala Ile Ala Ala  
 325 330 335  
 Val Trp Ala Ala Ala Lys Ser Gly Glu Arg Glu Thr Asn Val Pro  
 340 345 350  
 Ile Ser Phe Ser Gln Leu Leu Glu Ser Ala Phe Pro Glu Val Arg Ser  
 355 360 365  
 Leu Thr Leu Glu Ala Leu Leu Glu Lys Phe Leu Ala Ala Ala Ser Gly  
 370 375 380  
 Leu Gly Glu Lys Gly Val Pro Pro Leu Leu Cys Asn Met Gly Glu Lys  
 385 390 395 400  
 Phe Leu Leu Leu Ala Met Lys Glu Asn His Pro Glu Cys Phe Cys Lys  
 405 410 415  
 Ile Leu Lys Ile Leu His Cys Met Asp Pro Gly Glu Trp Leu Pro Gln  
 420 425 430  
 Thr Glu His Cys Val His Leu Thr Pro Lys Glu Phe Leu Ile Trp Thr  
 435 440 445  
 Met Asp Ile Ala Ser Asn Glu Arg Ser Glu Ile Gln Ser Val Ala Leu  
 450 455 460  
 Arg Leu Ala Ser Lys Val Ile Ser His His Met Gln Thr Cys Val Glu  
 465 470 475 480  
 Asn Arg Glu Leu Ile Ala Ala Glu Leu Lys Gln Trp Val Gln Leu Val  
 485 490 495  
 Ile Leu Ser Cys Glu Asp His Leu Pro Thr Glu Ser Arg Leu Ala Val  
 500 505 510  
 Val Glu Val Leu Thr Ser Thr Thr Pro Leu Phe Leu Thr Asn Pro His  
 515 520 525  
 Pro Ile Leu Glu Leu Gln Asp Thr Leu Ala Leu Trp Lys Cys Val Leu  
 530 535 540  
 Thr Leu Leu Gln Ser Glu Glu Gln Ala Val Arg Asp Ala Ala Thr Glu  
 545 550 555 560  
 Thr Val Thr Thr Ala Met Ser Gln Glu Asn Thr Cys Gln Ser Thr Glu  
 565 570 575

```

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu
      580      585      590
Ala Val Leu Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly
      595      600      605
Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val
      610      615      620
Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu
      625      630      635      640
Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr
      645      650      655
Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro
      660      665      670
Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln
      675      680      685
Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu
      690      695      700
Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg
      705      710      715      720
Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly
      725      730      735
Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg
      740      745      750
Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys
      755      760      763

```

```

<210> 1094
<211> 413
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 1094
His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly
  1      5      10      15
Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly
      20      25      30
Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp
      35      40      45
Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr
      50      55      60
Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu
      65      70      75      80
Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala
      85      90      95
Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Gly Phe Gly
      100      105      110
Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys
      115      120      125
Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp
      130      135      140
Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val
      145      150      155      160
Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala
      165      170      175
Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu
      180      185      190
Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu
      195      200      205
Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro
      210      215      220

```

```

Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe
225                230                235                240
Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg
                245                250                255
Pro Gln Glu Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly
                260                265                270
Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala
                275                280                285
Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser
                290                295                300
Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp
305                310                315                320
Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr
                325                330                335
Glu Ser Gln Asp Val Pro Trp Glu Glu Leu His Asn Arg Phe Gln Ser
                340                345                350
Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu
                355                360                365
Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser
370                375                380
Ile Trp Thr Asp Leu Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys
385                390                395                400
Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val
                405                410                413

```

&lt;210&gt; 1095

&lt;211&gt; 344

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(344)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1095

```

Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His
1                5                10                15
Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile
                20                25                30
Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu
                35                40                45
Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu
50                55                60
Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn
65                70                75                80
Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys
                85                90                95
Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile
                100                105                110
Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val
115                120                125
Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln
130                135                140
His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa
145                150                155                160
Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr
                165                170                175
Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Phe Met

```

```

      180      185      190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly
      195      200      205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg
      210      215      220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys
225      230      235      240
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr
      245      250      255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys
      260      265      270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His
      275      280      285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu
      290      295      300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly
305      310      315      320
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro
      325      330      335
Asn Leu Phe His Cys Thr Lys Ile
      340      344

```

```

<210> 1096
<211> 76
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1096
Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser
  1      5      10      15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala
      20      25      30
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu
      35      40      45
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser
      50      55      60
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro
65      70      75      76

```

```

<210> 1097
<211> 1462
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1462)
<223> X = any amino acid or stop code

```

```

      <400> 1097
Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
  1      5      10      15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
      20      25      30

```

Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser  
 35 40 45  
 Gly Lys Ile Pro His Tyr Glu Ser Glu Ile Asp Glu Asn Thr Phe Phe  
 50 55 60  
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu  
 65 70 75 80  
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu  
 85 90 95  
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser  
 100 105 110  
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser  
 115 120 125  
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu  
 130 135 140  
 Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu  
 145 150 155 160  
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro  
 165 170 175  
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn  
 180 185 190  
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu  
 195 200 205  
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn  
 210 215 220  
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser  
 225 230 235 240  
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg  
 245 250 255  
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp  
 260 265 270  
 Ser Thr Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe  
 275 280 285  
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met  
 290 295 300  
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His  
 305 310 315 320  
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val  
 325 330 335  
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His  
 340 345 350  
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys  
 355 360 365  
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His  
 370 375 380  
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys  
 385 390 395 400  
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His  
 405 410 415  
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu  
 420 425 430  
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln  
 435 440 445  
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly  
 450 455 460  
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu  
 465 470 475 480  
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val  
 485 490 495  
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg  
 500 505 510  
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr  
 515 520 525  
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn  
 530 535 540

Phe Pro Leu Glu Ile Lys Ser Leu Pro Arg Glu Ser Met Leu Thr Val  
 545 550 555 560  
 Lys Leu Phe Gly Ile Ala Cys Ala Thr Asn Ala Asn Leu Leu Ala  
 565 570 575  
 Trp Thr Cys Leu Pro Leu Phe Pro Lys Glu Lys Ser Ile Leu Gly Ser  
 580 585 590  
 Met Leu Phe Ser Met Thr Leu Gln Ser Glu Pro Pro Val Glu Met Ile  
 595 600 605  
 Thr Pro Gly Val Trp Asp Val Ser Gln Pro Ser Pro Val Thr Leu Gln  
 610 615 620  
 Ile Asp Phe Pro Ala Thr Gly Trp Glu Tyr Met Lys Pro Asp Ser Glu  
 625 630 635 640  
 Glu Asn Arg Ser Asn Leu Glu Glu Pro Leu Lys Glu Cys Ile Lys His  
 645 650 655  
 Ile Ala Arg Leu Ser Gln Lys Gln Thr Pro Leu Leu Leu Ser Glu Glu  
 660 665 670  
 Lys Lys Arg Tyr Leu Trp Phe Tyr Arg Phe Tyr Cys Asn Asn Glu Asn  
 675 680 685  
 Cys Ser Leu Pro Leu Val Leu Gly Ser Ala Pro Gly Trp Asp Glu Arg  
 690 695 700  
 Thr Val Ser Glu Met His Thr Ile Leu Arg Arg Trp Thr Phe Ser Gln  
 705 710 715 720  
 Pro Leu Glu Ala Leu Gly Leu Leu Thr Ser Ser Phe Pro Asp Gln Glu  
 725 730 735  
 Ile Arg Lys Val Ala Val Gln Gln Leu Asp Asn Leu Leu Asn Asp Glu  
 740 745 750  
 Leu Leu Glu Tyr Leu Pro Gln Leu Val Gln Ala Val Lys Phe Glu Trp  
 755 760 765  
 Asn Leu Glu Ser Pro Leu Val Gln Leu Leu Leu His Arg Ser Leu Gln  
 770 775 780  
 Ser Ile Gln Val Ala His Arg Leu Tyr Trp Leu Leu Lys Asn Ala Glu  
 785 790 795 800  
 Asn Glu Ala Tyr Phe Lys Ser Trp Tyr Gln Lys Leu Leu Ala Ala Leu  
 805 810 815  
 Gln Phe Cys Ala Gly Lys Ala Leu Asn Asp Glu Phe Ser Lys Glu Gln  
 820 825 830  
 Lys Leu Ile Lys Ile Leu Gly Asp Ile Gly Glu Arg Val Lys Ser Ala  
 835 840 845  
 Ser Asp His Gln Arg Gln Glu Val Leu Lys Lys Glu Ile Gly Arg Leu  
 850 855 860  
 Glu Glu Phe Phe Gln Asp Val Asn Thr Cys His Leu Pro Leu Asn Pro  
 865 870 875 880  
 Ala Leu Cys Ile Lys Gly Ile Asp His Asp Ala Cys Ser Tyr Phe Thr  
 885 890 895  
 Ser Asn Ala Leu Pro Leu Lys Ile Thr Phe Ile Asn Ala Asn Leu Met  
 900 905 910  
 Gly Lys Asn Ile Ser Ile Ile Phe Lys Ala Gly Asp Asp Leu Arg Gln  
 915 920 925  
 Asp Met Leu Val Leu Gln Leu Ile Gln Val Met Asp Asn Ile Trp Leu  
 930 935 940  
 Gln Glu Gly Leu Asp Met Gln Met Ile Ile Tyr Arg Cys Leu Ser Thr  
 945 950 955 960  
 Gly Lys Asp Gln Arg Leu Val Gln Met Val Pro Asp Ala Val Thr Leu  
 965 970 975  
 Ala Lys Ile His Arg His Ser Gly Leu Ile Gly Pro Leu Lys Glu Asn  
 980 985 990  
 Thr Ile Lys Lys Trp Phe Ser Gln His Asn His Leu Lys Ala Asp Tyr  
 995 1000 1005  
 Glu Lys Ala Leu Arg Asn Phe Phe Tyr Ser Cys Ala Gly Trp Cys Val  
 1010 1015 1020  
 Val Thr Phe Ile Leu Gly Val Cys Asp Arg His Asn Asp Asn Ile Met  
 1025 1030 1035 1040  
 Leu Thr Lys Ser Gly His Met Phe His Ile Asp Phe Gly Lys Phe Leu  
 1045 1050 1055

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe  
                   1060                  1065                  1070  
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn  
                   1075                  1080                  1085  
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn  
                   1090                  1095                  1100  
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met  
 1105                  1110                  1115                  1120  
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr  
                   1125                  1130                  1135  
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser  
                   1140                  1145                  1150  
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys  
                   1155                  1160                  1165  
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro  
                   1170                  1175                  1180  
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser  
 1185                  1190                  1195                  1200  
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys  
                   1205                  1210                  1215  
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr  
                   1220                  1225                  1230  
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln  
                   1235                  1240                  1245  
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp  
                   1250                  1255                  1260  
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu  
 1265                  1270                  1275                  1280  
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn  
                   1285                  1290                  1295  
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr  
                   1300                  1305                  1310  
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys  
                   1315                  1320                  1325  
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr  
                   1330                  1335                  1340  
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala  
 1345                  1350                  1355                  1360  
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val  
                   1365                  1370                  1375  
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr  
                   1380                  1385                  1390  
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val  
                   1395                  1400                  1405  
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn  
                   1410                  1415                  1420  
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu  
 1425                  1430                  1435                  1440  
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe  
                   1445                  1450                  1455  
 Met Gln Ser Val Leu His  
                   1460                  1462

&lt;210&gt; 1098

&lt;211&gt; 111

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(111)

&lt;223&gt; X = any amino acid or stop code



&lt;400&gt; 1098

```

Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln
 1           5           10           15
Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Gln
           20           25           30
Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro
           35           40           45
Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg
           50           55           60
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro
           65           70           75           80
Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro
           85           90           95
Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro
           100           105           110 111

```

&lt;210&gt; 1099

&lt;211&gt; 1070

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1070)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1099

```

Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala
 1           5           10           15
Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln
           20           25           30
Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp
           35           40           45
Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu
           50           55           60
Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe
           65           70           75           80
Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met
           85           90           95
Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala
           100           105           110
Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln
           115           120           125
Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Asp Ile Val Ser Met Asp
           130           135           140
Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Pro Glu Cys Thr Arg
           145           150           155           160
Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Asp Ile
           165           170           175
Ala Phe Phe Ser Leu Leu Leu Phe Leu Thr Ser Phe Phe Phe Ala Met
           180           185           190
Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg
           195           200           205
Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys
           210           215           220

```

Gly Leu Asp Ala Phe Leu Gly Leu Ala Thr Pro Lys Leu Met Val Pro  
 225 230 235 240  
 Arg Glu Phe Lys Pro Thr Leu Pro Gly Arg Gly Trp Leu Val Ser Pro  
 245 250 255  
 Phe Gly Ala Asn Pro Trp Trp Trp Ser Val Ala Ala Ala Leu Pro Ala  
 260 265 270  
 Leu Leu Leu Ser Ile Leu Ile Phe Met Asp Gln Gln Ile Thr Ala Val  
 275 280 285  
 Ile Leu Asn Arg Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His  
 290 295 300  
 Leu Asp Leu Phe Trp Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu  
 305 310 315 320  
 Gly Leu Pro Trp Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met  
 325 330 335  
 Asp Ser Leu Arg Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro  
 340 345 350  
 Asn Phe Leu Gly Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val Phe  
 355 360 365  
 Ile Leu Thr Gly Ala Ser Ile Phe Leu Ala Pro Val Leu Lys Phe Ile  
 370 375 380  
 Pro Met Pro Val Leu Tyr Gly Ile Phe Leu Tyr Met Gly Val Ala Ala  
 385 390 395 400  
 Leu Ser Ser Ile Gln Phe Thr Asn Arg Val Lys Leu Leu Leu Met Pro  
 405 410 415  
 Ala Lys His Gln Pro Asp Leu Leu Leu Leu Arg His Val Pro Leu Thr  
 420 425 430  
 Arg Val His Leu Phe Thr Ala Ile Ser Phe Ala Cys Leu Gly Leu Leu  
 435 440 445  
 Trp Ile Ile Lys Ser Thr Pro Ala Ala Ile Ile Phe Pro Leu Met Leu  
 450 455 460  
 Leu Gly Leu Val Gly Val Arg Lys Ala Leu Glu Arg Val Phe Ser Pro  
 465 470 475 480  
 Gln Glu Leu Leu Trp Leu Asp Glu Leu Met Pro Glu Glu Glu Arg Ser  
 485 490 495  
 Ile Pro Glu Lys Gly Leu Glu Pro Glu His Ser Phe Ser Gly Ser Asp  
 500 505 510  
 Ser Glu Asp Ser Glu Leu Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn  
 515 520 525  
 Ile Ser Val Asn Xaa Leu Glu Xaa Glu Phe Val Arg Glu Ile Arg Gly  
 530 535 540  
 Pro Ala Val Pro Arg Leu Thr Ser Ala Glu Asp Arg His Arg His Gly  
 545 550 555 560  
 Pro His Ala His Ser Pro Glu Leu Gln Arg Thr Gly Arg Asp Tyr Ser  
 565 570 575  
 Leu Asp Tyr Leu Pro Phe Arg Leu Trp Val Gly Ile Trp Val Ala Thr  
 580 585 590  
 Phe Cys Leu Val Leu Val Ala Thr Glu Ala Ser Val Leu Val Arg Tyr  
 595 600 605  
 Phe Thr Arg Phe Thr Glu Glu Gly Phe Cys Ala Leu Ile Ser Leu Ile  
 610 615 620  
 Phe Ile Tyr Asp Ala Val Gly Lys Met Leu Asn Leu Thr His Thr Tyr  
 625 630 635 640  
 Pro Ile Gln Lys Pro Gly Ser Ser Ala Tyr Gly Cys Leu Cys Gln Tyr  
 645 650 655  
 Pro Gly Pro Gly Gly Asn Glu Ser Gln Trp Ile Arg Thr Arg Pro Lys  
 660 665 670  
 Asp Arg Asp Asp Ile Val Ser Met Asp Leu Gly Leu Ile Asn Ala Ser  
 675 680 685  
 Leu Leu Pro Pro Pro Glu Cys Thr Arg Gln Gly Gly His Pro Arg Gly  
 690 695 700  
 Pro Gly Cys His Thr Val Pro Asp Ile Ala Phe Phe Ser Leu Leu Leu  
 705 710 715 720  
 Phe Leu Thr Ser Phe Phe Phe Ala Met Ala Leu Lys Cys Val Lys Thr  
 725 730 735

```

Ser Arg Phe Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser
      740      745      750
Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly
      755      760      765
Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu
      770      775      780
Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp
875      790      795      800
Trp Ser Val Ala Ala Leu Pro Ala Leu Leu Ser Ile Leu Ile
      805      810      815
Phe Met Asp Gln Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr
      820      825      830
Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala
      835      840      845
Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser
      850      855      860
Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser
865      870      875      880
Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu
      885      890      895
Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile
      900      905      910
Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly
      915      920      925
Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr
      930      935      940
Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro
945      950      955      960
Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser
      965      970      975
His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr
      980      985      990
Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val
      995      1000      1005
Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu
1010      1015      1020
Asp Glu Leu Met Pro Glu Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu
1025      1030      1035      1040
Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu
      1045      1050      1055
Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn
      1060      1065      1070

```

&lt;210&gt; 1100

&lt;211&gt; 875

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(875)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1100

```

Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
  1           5           10           15
Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
      20           25           30
Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

```

620

```

545          550          555          560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly
          565          570          575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe
          580          585          590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg
          595          600          605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe
          610          615          620
Val Lys Ser Leu Lys Gly Gln Val Gln Gly Leu Gly Arg Lys Leu Asp
625          630          635          640
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln
          645          650          655
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala
          660          665          670
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys
          675          680          685
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln
          690          695          700
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro
705          710          715          720
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr
          725          730          735
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro
          740          745          750
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp
          755          760          765
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser
          770          775          780
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His
785          790          795          800
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg
          805          810          815
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu
          820          825          830
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe
          835          840          845
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser
          850          855          860
Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile
865          870          875

```

&lt;210&gt; 1101

&lt;211&gt; 3530

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(3530)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1101

```

Arg Thr Arg Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr Ala Phe Glu
 1          5          10          15
Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val Arg Leu His
          20          25          30
Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser
          35          40          45

```

Ala Ser Pro Gly Gly Val Asp Tyr Ile Leu His Gly Ser Thr Val Thr  
 50 55 60  
 Phe Gln His Gly Gln Asn Leu Ser Phe Ile Asn Ile Ser Ile Ile Asp  
 65 70 75 80  
 Asp Asn Glu Ser Glu Phe Glu Glu Pro Ile Glu Ile Leu Leu Thr Gly  
 85 90 95  
 Ala Thr Gly Gly Ala Val Leu Gly Arg His Leu Val Ser Arg Ile Ile  
 100 105 110  
 Ile Ala Lys Ser Asp Ser Pro Phe Gly Val Ile Arg Phe Leu Asn Gln  
 115 120 125  
 Ser Lys Ile Ser Ile Ala Asn Pro Asn Ser Thr Met Ile Leu Ser Leu  
 130 135 140  
 Val Leu Glu Arg Thr Gly Gly Leu Leu Gly Glu Ile Gln Val Asn Trp  
 145 150 155 160  
 Glu Thr Val Gly Pro Asn Ser Gln Glu Ala Leu Leu Pro Gln Asn Arg  
 165 170 175  
 Asp Ile Ala Asp Pro Val Ser Gly Leu Phe Tyr Phe Gly Glu Gly Glu  
 180 185 190  
 Gly Gly Val Arg Thr Ile Ile Leu Thr Ile Tyr Pro His Glu Glu Ile  
 195 200 205  
 Glu Val Glu Glu Thr Phe Ile Ile Lys Leu His Leu Val Lys Gly Glu  
 210 215 220  
 Ala Lys Leu Asp Ser Arg Ala Lys Asp Val Thr Leu Thr Ile Gln Glu  
 225 230 235 240  
 Phe Gly Asp Pro Asn Gly Val Val Gln Phe Ala Pro Glu Thr Leu Ser  
 245 250 255  
 Lys Lys Thr Tyr Ser Glu Pro Leu Ala Leu Glu Gly Pro Leu Leu Ile  
 260 265 270  
 Thr Phe Phe Val Arg Arg Val Lys Gly Thr Phe Gly Glu Ile Met Val  
 275 280 285  
 Tyr Trp Glu Leu Ser Ser Glu Phe Asp Ile Thr Glu Asp Phe Leu Ser  
 290 295 300  
 Thr Ser Gly Phe Phe Thr Ile Ala Asp Gly Glu Ser Glu Ala Ser Phe  
 305 310 315 320  
 Asp Val His Leu Leu Pro Asp Glu Val Pro Glu Ile Glu Glu Asp Tyr  
 325 330 335  
 Val Ile Gln Leu Val Ser Val Glu Gly Gly Ala Glu Leu Asp Leu Glu  
 340 345 350  
 Lys Ser Ile Thr Trp Phe Ser Val Tyr Ala Asn Asp Asp Pro His Gly  
 355 360 365  
 Val Phe Ala Leu Tyr Ser Asp Arg Gln Ser Ile Leu Ile Gly Gln Asn  
 370 375 380  
 Leu Ile Arg Ser Ile Gln Ile Asn Ile Thr Arg Leu Ala Gly Thr Phe  
 385 390 395 400  
 Gly Asp Val Ala Val Gly Leu Arg Ile Ser Ser Asp His Lys Glu Gln  
 405 410 415  
 Pro Ile Val Thr Glu Asn Ala Glu Arg Gln Leu Val Val Lys Asp Gly  
 420 425 430  
 Ala Thr Tyr Lys Val Asp Val Val Pro Ile Lys Asn Gln Val Phe Leu  
 435 440 445  
 Ser Leu Gly Ser Asn Phe Thr Leu Gln Leu Val Thr Val Met Leu Val  
 450 455 460  
 Gly Gly Arg Phe Tyr Gly Met Pro Thr Ile Leu Gln Glu Ala Lys Ser  
 465 470 475 480  
 Ala Val Leu Pro Val Ser Glu Lys Ala Ala Asn Ser Gln Val Gly Phe  
 485 490 495  
 Glu Ser Thr Ala Phe Gln Leu Met Asn Ile Thr Ala Gly Thr Ser His  
 500 505 510  
 Val Met Ile Ser Arg Arg Gly Thr Tyr Gly Ala Leu Ser Val Ala Trp  
 515 520 525  
 Thr Thr Gly Tyr Ala Pro Gly Leu Glu Ile Pro Glu Phe Ile Val Val  
 530 535 540  
 Gly Asn Met Thr Pro Thr Leu Gly Ser Leu Ser Phe Ser His Gly Glu  
 545 550 555 560

Gln Arg Lys Gly Val Phe Leu Trp Thr Phe Pro Ser Pro Gly Trp Pro  
 565 570 575  
 Glu Ala Phe Val Leu His Leu Ser Gly Val Gln Ser Ser Ala Pro Gly  
 580 585 590  
 Gly Ala Gln Leu Arg Ser Gly Phe Ile Val Ala Glu Ile Glu Pro Met  
 595 600 605  
 Gly Val Phe Gln Phe Ser Thr Ser Ser Arg Asn Ile Ile Val Ser Glu  
 610 615 620  
 Asp Thr Gln Met Ile Arg Leu His Val Gln Arg Leu Phe Gly Phe His  
 625 630 635 640  
 Ser Asp Leu Ile Lys Val Ser Tyr Gln Thr Thr Ala Gly Ser Ala Lys  
 645 650 655  
 Pro Leu Glu Asp Phe Glu Pro Val Gln Asn Gly Glu Leu Phe Phe Gln  
 660 665 670  
 Lys Phe Gln Thr Glu Val Asp Phe Glu Ile Thr Ile Ile Asn Asp Gln  
 675 680 685  
 Leu Ser Glu Ile Glu Glu Phe Phe Tyr Ile Asn Leu Thr Ser Val Glu  
 690 695 700  
 Ile Arg Gly Leu Gln Lys Phe Asp Val Asn Trp Ser Pro Arg Leu Asn  
 705 710 715 720  
 Leu Asp Phe Ser Val Ala Val Ile Thr Ile Leu Asp Asn Asp Asp Leu  
 725 730 735  
 Ala Gly Met Asp Ile Ser Phe Pro Glu Thr Thr Val Ala Val Ala Val  
 740 745 750  
 Asp Thr Thr Leu Ile Pro Val Glu Thr Glu Ser Thr Thr Tyr Leu Ser  
 755 760 765  
 Thr Ser Lys Thr Thr Thr Ile Leu Gln Pro Thr Asn Val Val Ala Ile  
 770 775 780  
 Val Thr Glu Ala Thr Gly Val Ser Ala Ile Pro Glu Lys Leu Val Thr  
 785 790 795 800  
 Leu His Gly Thr Pro Ala Val Ser Glu Lys Pro Asp Val Ala Thr Val  
 805 810 815  
 Thr Ala Asn Val Ser Ile His Gly Thr Phe Ser Leu Gly Pro Ser Ile  
 820 825 830  
 Val Tyr Ile Glu Glu Glu Met Lys Asn Gly Thr Phe Asn Thr Ala Glu  
 835 840 845  
 Val Leu Ile Arg Arg Thr Gly Gly Phe Thr Gly Asn Val Ser Ile Thr  
 850 855 860  
 Val Lys Thr Phe Gly Glu Arg Cys Ala Gln Met Glu Pro Asn Ala Leu  
 865 870 875 880  
 Pro Phe Arg Gly Ile Tyr Gly Ile Ser Asn Leu Thr Trp Ala Val Glu  
 885 890 895  
 Glu Glu Asp Phe Glu Glu Gln Thr Leu Thr Leu Ile Phe Leu Asp Gly  
 900 905 910  
 Glu Arg Glu Arg Lys Val Ser Val Gln Ile Leu Asp Asp Asp Glu Pro  
 915 920 925  
 Glu Gly Gln Glu Phe Phe Tyr Val Phe Leu Thr Asn Pro Gln Gly Gly  
 930 935 940  
 Ala Gln Ile Val Glu Gly Lys Asp Asp Thr Gly Phe Ala Ala Phe Ala  
 945 950 955 960  
 Met Val Ile Ile Thr Gly Ser Asp Leu His Asn Gly Ile Ile Gly Phe  
 965 970 975  
 Ser Glu Glu Ser Gln Ser Gly Leu Glu Leu Arg Glu Gly Ala Val Met  
 980 985 990  
 Arg Arg Leu His Leu Ile Val Thr Arg Gln Pro Asn Arg Ala Phe Glu  
 995 1000 1005  
 Asp Val Lys Val Phe Trp Arg Val Thr Leu Asn Lys Thr Val Val Val  
 1010 1015 1020  
 Leu Gln Lys Asp Gly Val Asn Leu Met Glu Glu Leu Gln Ser Val Ser  
 1025 1030 1035 1040  
 Gly Thr Thr Thr Cys Thr Met Gly Gln Thr Lys Cys Phe Ile Ser Ile  
 1045 1050 1055  
 Glu Leu Lys Pro Glu Lys Val Pro Gln Val Glu Val Tyr Phe Phe Val  
 1060 1065 1070

Glu Leu Tyr Glu Ala Thr Ala Gly Ala Ala Ile Asn Asn Ser Ala Arg  
 1075 1080 1085  
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val  
 1090 1095 1100  
 Tyr Phe Ser Val Gly Ser Arg Leu Ala Val Ala His Lys Lys Ala Thr  
 1105 1110 1115 1120  
 Leu Ile Ser Leu Gln Val Ala Arg Asp Ser Gly Thr Gly Leu Met Met  
 1125 1130 1135  
 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly  
 1140 1145 1150  
 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr  
 1155 1160 1165  
 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp  
 1170 1175 1180  
 Val Ile Leu Thr Pro Glu Thr Gly Ser Leu Asn Ser Phe Pro Lys Arg  
 1185 1190 1195 1200  
 Phe Gln Ile Val Leu Phe Asp Pro Lys Gly Gly Ala Arg Ile Asp Lys  
 1205 1210 1215  
 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln  
 1220 1225 1230  
 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp  
 1235 1240 1245  
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu  
 1250 1255 1260  
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile  
 1265 1270 1275 1280  
 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu  
 1285 1290 1295  
 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr  
 1300 1305 1310  
 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser  
 1315 1320 1325  
 Leu Leu Thr Asn Val Thr Cys Gly Ser Pro Gly Glu Lys Ser Lys Thr  
 1330 1335 1340  
 Ile Leu Asp Ser Cys Pro Tyr Leu Ser Ile Leu Ala Leu His Trp Tyr  
 1345 1350 1355 1360  
 Pro Gln Gln Ile Asn Gly His Lys Phe Glu Gly Lys Glu Gly Asp Tyr  
 1365 1370 1375  
 Ile Arg Ile Pro Glu Arg Leu Leu Asp Val Gln Asp Ala Glu Ile Met  
 1380 1385 1390  
 Ala Gly Lys Ser Thr Cys Lys Leu Val Gln Phe Thr Glu Tyr Ser Ser  
 1395 1400 1405  
 Gln Gln Trp Phe Ile Ser Gly Asn Asn Leu Pro Thr Leu Lys Asn Lys  
 1410 1415 1420  
 Val Leu Ser Leu Ser Val Lys Gly Gln Ser Ser Gln Leu Leu Thr Asn  
 1425 1430 1435 1440  
 Asp Asn Glu Val Leu Tyr Arg Ile Tyr Ala Ala Glu Pro Arg Ile Ile  
 1445 1450 1455  
 Pro Gln Thr Ser Leu Cys Leu Leu Trp Asn Gln Ala Ala Ala Ser Trp  
 1460 1465 1470  
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr  
 1475 1480 1485  
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg  
 1490 1495 1500  
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe  
 1505 1510 1515 1520  
 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys  
 1525 1530 1535  
 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala  
 1540 1545 1550  
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser  
 1555 1560 1565  
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His  
 1570 1575 1580



Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn  
 1585 1590 1595 1600  
 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr  
 1605 1610 1615  
 Leu Leu Phe Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile  
 1620 1625 1630  
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln  
 1635 1640 1645  
 Ile Tyr Gly Leu Ile His Gly Asp Leu Cys Phe Ile Pro Asn Val Tyr  
 1650 1655 1660  
 Ala Ala Leu Phe Thr Ala Ala Leu Val Pro Leu Thr Cys Leu Val Val  
 1665 1670 1675 1680  
 Val Phe Val Val Phe Ile His Ala Tyr Gln Val Lys Pro Gln Trp Lys  
 1685 1690 1695  
 Ala Tyr Asp Asp Val Phe Arg Gly Arg Thr Asn Ala Ala Glu Ile Pro  
 1700 1705 1710  
 Leu Ile Leu Tyr Leu Phe Ala Leu Ile Ser Val Thr Trp Leu Trp Gly  
 1715 1720 1725  
 Gly Leu His Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val  
 1730 1735 1740  
 Ile Phe Asn Ser Leu Gln Leu Leu Tyr Pro Leu Phe Tyr Phe Leu Leu  
 1745 1750 1755 1760  
 Leu Xaa Asp Gln Ser Ser Ser Ala Ser Pro Gly Gly Val Asp Tyr Ile  
 1765 1770 1775  
 Leu His Gly Ser Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe  
 1780 1785 1790  
 Ile Asn Ile Ser Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro  
 1795 1800 1805  
 Ile Glu Ile Leu Leu Thr Gly Ala Thr Gly Gly Ala Val Leu Gly Arg  
 1810 1815 1820  
 His Leu Val Ser Arg Ile Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly  
 1825 1830 1835 1840  
 Val Ile Arg Phe Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn  
 1845 1850 1855  
 Ser Thr Met Ile Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu  
 1860 1865 1870  
 Gly Glu Ile Gln Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu  
 1875 1880 1885  
 Ala Leu Leu Pro Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gly Leu  
 1890 1895 1900  
 Phe Tyr Phe Gly Glu Gly Glu Gly Val Arg Thr Ile Ile Leu Thr  
 1905 1910 1915 1920  
 Ile Tyr Pro His Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys  
 1925 1930 1935  
 Leu His Leu Val Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp  
 1940 1945 1950  
 Val Thr Leu Thr Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln  
 1955 1960 1965  
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala  
 1970 1975 1980  
 Leu Glu Gly Pro Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly  
 1985 1990 1995 2000  
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp  
 2005 2010 2015  
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp  
 2020 2025 2030  
 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val  
 2035 2040 2045  
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly  
 2050 2055 2060  
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr  
 2065 2070 2075 2080  
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln  
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile  
 2100 2105 2110  
 Thr Arg Leu Ala Gly Thr Phe Gly Asp Val Ala Val Gly Leu Arg Ile  
 2115 2120 2125  
 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg  
 2130 2135 2140  
 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro  
 2145 2150 2155 2160  
 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln  
 2165 2170 2175  
 Leu Val Thr Val Met Leu Val Gly Gly Arg Phe Tyr Gly Met Pro Thr  
 2180 2185 2190  
 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala  
 2195 2200 2205  
 Ala Asn Ser Gln Val Gly Phe Glu Ser Thr Ala Phe Gln Leu Met Asn  
 2210 2215 2220  
 Ile Thr Ala Gly Thr Ser His Val Met Ile Ser Arg Arg Gly Thr Tyr  
 2225 2230 2235 2240  
 Gly Ala Leu Ser Val Ala Trp Thr Thr Gly Tyr Ala Pro Gly Leu Glu  
 2245 2250 2255  
 Ile Pro Glu Phe Ile Val Val Gly Asn Met Thr Pro Thr Leu Gly Ser  
 2260 2265 2270  
 Leu Ser Phe Ser His Gly Glu Gln Arg Lys Gly Val Phe Leu Trp Thr  
 2275 2280 2285  
 Phe Pro Ser Pro Gly Trp Pro Glu Ala Phe Val Leu His Leu Ser Gly  
 2290 2295 2300  
 Val Gln Ser Ser Ala Pro Gly Gly Ala Gln Leu Arg Ser Gly Phe Ile  
 2305 2310 2315 2320  
 Val Ala Glu Ile Glu Pro Met Gly Val Phe Gln Phe Ser Thr Ser Ser  
 2325 2330 2335  
 Arg Asn Ile Ile Val Ser Glu Asp Thr Gln Met Ile Arg Leu His Val  
 2340 2345 2350  
 Gln Arg Leu Phe Gly Phe His Ser Asp Leu Ile Lys Val Ser Tyr Gln  
 2355 2360 2365  
 Thr Thr Ala Gly Ser Ala Lys Pro Leu Glu Asp Phe Glu Pro Val Gln  
 2370 2375 2380  
 Asn Gly Glu Leu Phe Phe Gln Lys Phe Gln Thr Glu Val Asp Phe Glu  
 2385 2390 2395 2400  
 Ile Thr Ile Ile Asn Asp Gln Leu Ser Glu Ile Glu Glu Phe Phe Tyr  
 2405 2410 2415  
 Ile Asn Leu Thr Ser Val Glu Ile Arg Gly Leu Gln Lys Phe Asp Val  
 2420 2425 2430  
 Asn Trp Ser Pro Arg Leu Asn Leu Asp Phe Ser Val Ala Val Ile Thr  
 2435 2440 2445  
 Ile Leu Asp Asn Asp Asp Leu Ala Gly Met Asp Ile Ser Phe Pro Glu  
 2450 2455 2460  
 Thr Thr Val Ala Val Ala Val Asp Thr Thr Leu Ile Pro Val Glu Thr  
 2465 2470 2475 2480  
 Glu Ser Thr Thr Tyr Leu Ser Thr Ser Lys Thr Thr Thr Ile Leu Gln  
 2485 2490 2495  
 Pro Thr Asn Val Val Ala Ile Val Thr Glu Ala Thr Gly Val Ser Ala  
 2500 2505 2510  
 Ile Pro Glu Lys Leu Val Thr Leu His Gly Thr Pro Ala Val Ser Glu  
 2515 2520 2525  
 Lys Pro Asp Val Ala Thr Val Thr Ala Asn Val Ser Ile His Gly Thr  
 2530 2535 2540  
 Phe Ser Leu Gly Pro Ser Ile Val Tyr Ile Glu Glu Met Lys Asn  
 2545 2550 2555 2560  
 Gly Thr Phe Asn Thr Ala Glu Val Leu Ile Arg Arg Thr Gly Gly Phe  
 2565 2570 2575  
 Thr Gly Asn Val Ser Ile Thr Val Lys Thr Phe Gly Glu Arg Cys Ala  
 2580 2585 2590  
 Gln Met Glu Pro Asn Ala Leu Pro Phe Arg Gly Ile Tyr Gly Ile Ser  
 2595 2600 2605

Asn Leu Thr Trp Ala Val Glu Glu Glu Asp Phe Glu Glu Gln Thr Leu  
 2610 2615 2620  
 Thr Leu Ile Phe Leu Asp Gly Glu Arg Glu Arg Lys Val Ser Val Gln  
 2625 2630 2635 2640  
 Ile Leu Asp Asp Asp Glu Pro Glu Gly Gln Glu Phe Phe Tyr Val Phe  
 2645 2650 2655  
 Leu Thr Asn Pro Gln Gly Gly Ala Gln Ile Val Glu Gly Lys Asp Asp  
 2660 2665 2670  
 Thr Gly Phe Ala Ala Phe Ala Met Val Ile Ile Thr Gly Ser Asp Leu  
 2675 2680 2685  
 His Asn Gly Ile Ile Gly Phe Ser Glu Glu Ser Gln Ser Gly Leu Glu  
 2690 2695 2700  
 Leu Arg Glu Gly Ala Val Met Arg Arg Leu His Leu Ile Val Thr Arg  
 2705 2710 2715 2720  
 Gln Pro Asn Arg Ala Phe Glu Asp Val Lys Val Phe Trp Arg Val Thr  
 2725 2730 2735  
 Leu Asn Lys Thr Val Val Val Leu Gln Lys Asp Gly Val Asn Leu Met  
 2740 2745 2750  
 Glu Glu Leu Gln Ser Val Ser Gly Thr Thr Thr Cys Thr Met Gly Gln  
 2755 2760 2765  
 Thr Lys Cys Phe Ile Ser Ile Glu Leu Lys Pro Glu Lys Val Pro Gln  
 2770 2775 2780  
 Val Glu Val Tyr Phe Phe Val Glu Leu Tyr Glu Ala Thr Ala Gly Ala  
 2785 2790 2795 2800  
 Ala Ile Asn Asn Ser Ala Arg Phe Ala Gln Ile Lys Ile Leu Glu Ser  
 2805 2810 2815  
 Asp Glu Ser Gln Ser Leu Val Tyr Phe Ser Val Gly Ser Arg Leu Ala  
 2820 2825 2830  
 Val Ala His Lys Lys Ala Thr Leu Ile Ser Leu Gln Val Ala Arg Asp  
 2835 2840 2845  
 Ser Gly Thr Gly Leu Met Met Ser Val Asn Phe Ser Thr Gln Glu Leu  
 2850 2855 2860  
 Arg Ser Ala Glu Thr Ile Gly Arg Thr Ile Ile Ser Pro Ala Ile Ser  
 2865 2870 2875 2880  
 Gly Lys Asp Phe Val Ile Thr Glu Gly Thr Leu Val Phe Glu Pro Gly  
 2885 2890 2895  
 Gln Arg Ser Thr Val Leu Asp Val Ile Leu Thr Pro Glu Thr Gly Ser  
 2900 2905 2910  
 Leu Asn Ser Phe Pro Lys Arg Phe Gln Ile Val Leu Phe Asp Pro Lys  
 2915 2920 2925  
 Gly Gly Ala Arg Ile Asp Lys Val Tyr Gly Thr Ala Asn Ile Thr Leu  
 2930 2935 2940  
 Val Ser Asp Ala Asp Ser Gln Ala Ile Trp Gly Leu Ala Asp Gln Leu  
 2945 2950 2955 2960  
 His Gln Pro Val Asn Asp Asp Ile Leu Asn Arg Val Leu His Thr Ile  
 2965 2970 2975  
 Ser Met Lys Val Ala Thr Glu Asn Thr Asp Glu Gln Leu Ser Ala Met  
 2980 2985 2990  
 Met His Leu Ile Glu Lys Ile Thr Thr Glu Gly Lys Ile Gln Ala Phe  
 2995 3000 3005  
 Ser Val Ala Ser Arg Thr Leu Phe Tyr Glu Ile Leu Cys Ser Leu Ile  
 3010 3015 3020  
 Asn Pro Lys Arg Lys Asp Thr Arg Gly Phe Ser His Phe Ala Glu Leu  
 3025 3030 3035 3040  
 Thr Glu Asn Phe Ala Phe Ser Leu Leu Thr Asn Val Thr Cys Gly Ser  
 3045 3050 3055  
 Pro Gly Glu Lys Ser Lys Thr Ile Leu Asp Ser Cys Pro Tyr Leu Ser  
 3060 3065 3070  
 Ile Leu Ala Leu His Trp Tyr Pro Gln Gln Ile Asn Gly His Lys Phe  
 3075 3080 3085  
 Glu Gly Lys Glu Gly Asp Tyr Ile Arg Ile Pro Glu Arg Leu Leu Asp  
 3090 3095 3100  
 Val Gln Asp Ala Glu Ile Met Ala Gly Lys Ser Thr Cys Lys Leu Val  
 3105 3110 3115 3120

Gln Phe Thr Glu Tyr Ser Ser Gln Gln Trp Phe Ile Ser Gly Asn Asn  
                   3125                  3130                  3135  
 Leu Pro Thr Leu Lys Asn Lys Val Leu Ser Leu Ser Val Lys Gly Gln  
                   3140                  3145                  3150  
 Ser Ser Gln Leu Leu Thr Asn Asp Asn Glu Val Leu Tyr Arg Ile Tyr  
                   3155                  3160                  3165  
 Ala Ala Glu Pro Arg Ile Ile Pro Gln Thr Ser Leu Cys Leu Leu Trp  
                   3170                  3175                  3180  
 Asn Gln Ala Ala Ala Ser Trp Leu Ser Asp Ser Gln Phe Cys Lys Val  
 3185                  3190                  3195                  3200  
 Ile Glu Glu Thr Ala Asp Tyr Val Glu Cys Ala Cys Leu His Met Ser  
                   3205                  3210                  3215  
 Val Tyr Ala Val Tyr Ala Arg Thr Asp Asn Leu Ser Ser Tyr Asn Glu  
                   3220                  3225                  3230  
 Ala Phe Phe Thr Ser Gly Phe Ile Cys Ile Ser Gly Leu Cys Leu Ala  
                   3235                  3240                  3245  
 Val Leu Ser His Ile Phe Cys Ala Arg Tyr Ser Met Phe Ala Ala Lys  
                   3250                  3255                  3260  
 Leu Leu Thr His Met Met Ala Ala Ser Leu Gly Thr Gln Ile Leu Phe  
 3265                  3270                  3275                  3280  
 Leu Ala Ser Ala Tyr Ala Ser Pro Gln Leu Ala Glu Glu Ser Cys Ser  
                   3285                  3290                  3295  
 Ala Met Ala Ala Val Thr His Tyr Leu Tyr Leu Cys Gln Phe Ser Trp  
                   3300                  3305                  3310  
 Met Leu Ile Gln Ser Val Asn Phe Trp Tyr Val Leu Val Met Asn Asp  
                   3315                  3320                  3325  
 Glu His Thr Glu Arg Arg Tyr Leu Leu Phe Phe Leu Leu Ser Trp Gly  
                   3330                  3335                  3340  
 Leu Pro Ala Phe Val Val Ile Leu Leu Ile Val Ile Leu Lys Gly Ile  
 3345                  3350                  3355                  3360  
 Tyr His Gln Ser Met Ser Gln Ile Tyr Gly Leu Ile His Gly Asp Leu  
                   3365                  3370                  3375  
 Cys Phe Ile Pro Asn Val Tyr Ala Ala Leu Phe Thr Ala Ala Leu Val  
                   3380                  3385                  3390  
 Pro Leu Thr Cys Leu Val Val Val Phe Val Val Phe Ile His Ala Tyr  
                   3395                  3400                  3405  
 Gln Val Lys Pro Gln Trp Lys Ala Tyr Asp Asp Val Phe Arg Gly Arg  
                   3410                  3415                  3420  
 Thr Asn Ala Ala Glu Ile Pro Leu Ile Leu Tyr Leu Phe Ala Leu Ile  
 3425                  3430                  3435                  3440  
 Ser Val Thr Trp Leu Trp Gly Gly Leu His Met Ala Tyr Arg His Phe  
                   3445                  3450                  3455  
 Trp Met Leu Val Leu Phe Val Ile Phe Asn Ser Leu Gln Leu Leu Val  
                   3460                  3465                  3470  
 Pro Ser Val Leu Leu Phe Thr Ser Met Arg Ser Thr Phe Phe Ser Phe  
                   3475                  3480                  3485  
 His Thr Gly Thr Leu Thr Ser Arg Glu Lys Lys Ser Thr Phe Val Leu  
                   3490                  3495                  3500  
 Thr Cys Leu Leu Ser Pro Asp Ser Lys Gly Leu Gly Val Leu Cys Phe  
 3505                  3510                  3515                  3520  
 Leu Asn Thr Glu Trp Ala Phe Gln Val His  
                   3525                  3530

&lt;210&gt; 1102

&lt;211&gt; 945

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(945)

&lt;223&gt; X = any amino acid or stop code

<400> 1102

Ala	Ala	Gly	Ala	Thr	Met	Glu	Arg	Asp	Gly	Cys	Ala	Gly	Gly	Gly	Ser
1				5					10					15	
Arg	Gly	Gly	Glu	Gly	Gly	Arg	Ala	Pro	Arg	Glu	Gly	Pro	Ala	Gly	Asn
		20						25					30		
Gly	Arg	Asp	Arg	Gly	Arg	Ser	His	Ala	Ala	Glu	Ala	Pro	Gly	Asp	Pro
		35					40					45			
Gln	Ala	Ala	Ala	Ser	Leu	Leu	Ala	Pro	Met	Asp	Val	Gly	Glu	Glu	Pro
	50					55					60				
Leu	Glu	Lys	Ala	Ala	Arg	Ala	Arg	Thr	Ala	Lys	Asp	Pro	Asn	Thr	Tyr
65					70					75					80
Lys	Val	Leu	Ser	Leu	Val	Leu	Ser	Val	Cys	Val	Leu	Thr	Thr	Ile	Leu
				85					90					95	
Gly	Cys	Ile	Phe	Gly	Leu	Lys	Pro	Ser	Cys	Ala	Lys	Glu	Val	Lys	Ser
		100						105					110		
Cys	Lys	Gly	Arg	Cys	Phe	Glu	Arg	Thr	Phe	Gly	Asn	Cys	Arg	Cys	Asp
		115					120					125			
Ala	Ala	Cys	Val	Glu	Leu	Gly	Asn	Cys	Cys	Leu	Gly	Leu	Pro	Gly	Gly
	130					135					140				
Thr	Cys	Ile	Glu	Pro	Glu	His	Ile	Trp	Thr	Cys	Asn	Lys	Phe	Arg	Cys
145					150					155					160
Gly	Glu	Lys	Arg	Leu	Thr	Arg	Ser	Leu	Cys	Ala	Cys	Ser	Asp	Asp	Cys
				165					170					175	
Lys	Asp	Arg	Gly	Asp	Cys	Leu	Pro	Ser	Asn	Leu	Gln	Phe	Leu	Cys	Val
			180					185					190		
Gln	Gly	Glu	Lys	Ser	Trp	Gly	Arg	Lys	Asn	Pro	Cys	Glu	Ser	His	Leu
		195					200					205			
Met	Glu	Pro	Gln	Cys	Pro	Ala	Gly	Phe	Glu	Thr	Pro	Ser	Leu	Pro	Leu
	210					215					220				
Leu	Ile	Phe	Ser	Leu	Asp	Gly	Phe	Arg	Ala	Glu	Tyr	Leu	His	Thr	Trp
225					230					235					240
Gly	Gly	Leu	Leu	Pro	Val	Ile	Ser	Lys	Leu	Lys	Lys	Cys	Gly	Thr	Tyr
				245					250					255	
Thr	Lys	Asn	Met	Arg	Pro	Val	Tyr	Pro	Thr	Lys	Thr	Phe	Pro	Asn	His
		260						265					270		
Tyr	Ser	Ile	Val	Thr	Gly	Leu	Tyr	Pro	Glu	Ser	His	Gly	Ile	Ile	Asn
		275					280					285			
Asn	Lys	Met	Tyr	Asp	Pro	Lys	Met	Asn	Ala	Ser	Phe	Ser	Leu	Lys	Ser
	290					295					300				
Lys	Glu	Lys	Phe	Asn	Pro	Glu	Trp	Tyr	Lys	Gly	Glu	Pro	Ile	Trp	Val
305					310					315					320
Thr	Ala	Lys	Tyr	Gln	Gly	Leu	Lys	Ser	Gly	Thr	Phe	Phe	Trp	Pro	Gly
				325					330					335	
Ser	Asp	Val	Glu	Ile	Asn	Gly	Ile	Phe	Pro	Asp	Ile	Tyr	Lys	Met	Tyr
			340					345					350		
Asn	Gly	Ser	Val	Pro	Phe	Glu	Glu	Arg	Ile	Leu	Ala	Val	Leu	Gln	Trp
		355					360					365			
Leu	Gln	Leu	Pro	Lys	Asp	Glu	Arg	Pro	His	Phe	Tyr	Thr	Leu	Tyr	Leu
	370					375					380				
Glu	Glu	Pro	Asp	Ser	Ser	Gly	His	Ser	Tyr	Gly	Pro	Val	Ser	Ser	Glu
385					390					395					400
Val	Ile	Lys	Ala	Leu	Gln	Arg	Val	Asp	Gly	Met	Val	Gly	Met	Leu	Met
				405					410					415	
Asp	Gly	Leu	Lys	Glu	Leu	Asn	Leu	His	Arg	Cys	Leu	Asn	Leu	Ile	Leu
		420						425					430		
Ile	Ser	Asp	His	Gly	Met	Glu	Gln	Gly	Ser	Cys	Lys	Lys	Tyr	Ile	Tyr
		435					440					445			
Leu	Asn	Lys	Tyr	Leu	Gly	Asp	Val	Lys	Asn	Ile	Lys	Val	Ile	Tyr	Gly
	450					455					460				
Pro	Ala	Ala	Arg	Leu	Arg	Pro	Ser	Asp	Val	Pro	Asp	Lys	Tyr	Tyr	Ser

465 470 475 480  
 Phe Asn Tyr Glu Gly Ile Ala Arg Asn Leu Ser Cys Arg Glu Pro Asn  
 485 490 495  
 Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His  
 500 505 510  
 Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro  
 515 520 525  
 Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser  
 530 535 540  
 Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe  
 545 550 555 560  
 Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe  
 565 570 575  
 Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr  
 580 585 590  
 Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys  
 595 600 605  
 Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val  
 610 615 620  
 Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys  
 625 630 635 640  
 Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu  
 645 650 655  
 Thr Val Ala Glu Glu Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly  
 660 665 670  
 Arg Pro Arg Val Leu Gln Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln  
 675 680 685  
 His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp  
 690 695 700  
 Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe  
 705 710 715 720  
 Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His  
 725 730 735  
 Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu  
 740 745 750  
 Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala  
 755 760 765  
 Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile  
 770 775 780  
 Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg  
 785 790 795 800  
 Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp  
 805 810 815  
 Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His  
 820 825 830  
 Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr  
 835 840 845  
 Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys  
 850 855 860  
 Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp  
 865 870 875 880  
 Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val  
 885 890 895  
 Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa  
 900 905 910  
 Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val  
 915 920 925  
 Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu  
 930 935 940  
 Asp  
 945

<211> 217  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1103  
 Thr Val Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro  
 1 5 10 15  
 Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg  
 20 25 30  
 Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg  
 35 40 45  
 Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn  
 50 55 60  
 Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn  
 65 70 75 80  
 Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr  
 85 90 95  
 Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu  
 100 105 110  
 Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His  
 115 120 125  
 Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser  
 130 135 140  
 Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala  
 145 150 155 160  
 Gly Gly Trp Gly Trp Phe Phe Asn Lys His Ala Leu Gln Arg Ala Pro  
 165 170 175  
 Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu  
 180 185 190  
 Ile Asn Tyr Gly Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu  
 195 200 205  
 Ala Ala Pro Pro Asn Lys His Arg Arg  
 210 215 217

<210> 1104  
 <211> 436  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1104  
 His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val  
 1 5 10 15  
 Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr  
 20 25 30  
 Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met  
 35 40 45  
 Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro  
 50 55 60  
 Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp  
 65 70 75 80  
 Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val  
 85 90 95  
 Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly  
 100 105 110  
 Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

```

      115              120              125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly
      130              135              140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala
145              150              155              160
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu
      165              170              175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Leu Phe Ala
      180              185              190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu
      195              200              205
His Asp Thr His Asp Ala Leu Asn Val Val Val Gln Leu Glu Lys Gln
      210              215              220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp
225              230              235              240
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu
      245              250              255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His
      260              265              270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu
      275              280              285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp
      290              295              300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr
305              310              315              320
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly
      325              330              335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile
      340              345              350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala
      355              360              365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser
      370              375              380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp
385              390              395              400
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala
      405              410              415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser
      420              425              430
Glu Ala Glu Cys
      435 436

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&lt;210&gt; 1105

&lt;211&gt; 113

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1105

```

Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Arg Arg His Gln
1      5      10      15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg
      20      25      30
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly
      35      40      45
Cys Glu Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu
      50      55      60
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala
      65      70      75      80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu

```



85 90 95  
 Ser Arg Ile Arg Gly Met Arg Lys Leu Ser Pro Pro Gln Lys Lys Ser  
 100 105 110  
 Val  
 113

<210> 1106  
 <211> 464  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1106  
 Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala  
 1 5 10 15  
 Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu  
 20 25 30  
 Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile  
 35 40 45  
 Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn  
 50 55 60  
 Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met  
 65 70 75 80  
 Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu  
 85 90 95  
 Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro  
 100 105 110  
 Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys  
 115 120 125  
 Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu  
 130 135 140  
 Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu  
 145 150 155 160  
 Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg  
 165 170 175  
 Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp  
 180 185 190  
 Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp  
 195 200 205  
 Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser  
 210 215 220  
 Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr  
 225 230 235 240  
 Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln  
 245 250 255  
 Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser  
 260 265 270  
 Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr  
 275 280 285  
 Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp  
 290 295 300  
 Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln  
 305 310 315 320  
 Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro  
 325 330 335  
 Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser  
 340 345 350  
 Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro  
 355 360 365  
 Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu

```

      370              375              380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp
385              390              395              400
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp
      405              410              415
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg
      420              425              430
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys
      435              440              445
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr
      450              455              460              464

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<210> 1107
<211> 153
<212>Amino acid
<213> Homo sapiens

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```

      <400> 1107
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr
  1              5              10              15
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val
      20              25              30
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn
      35              40              45
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly
      50              55              60
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met
      65              70              75              80
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr
      85              90              95
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile
      100              105              110
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu
      115              120              125
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe
      130              135              140
Met Tyr Trp Ser Leu Arg Gly Gly Ser
145              150              153

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<210> 1108
<211> 506
<212>Amino acid
<213> Homo sapiens

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```

      <400> 1108
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly
  1              5              10              15
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly
      20              25              30
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser
      35              40              45
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly

```

50 55 60  
 Pro Asp Pro Leu Asp Thr Arg Arg Leu Gln Gly Phe Arg Leu Glu Glu  
 65 70 75 80  
 Tyr Leu Ile Gly Gln Ser Ile Gly Lys Gly Cys Ser Ala Ala Val Tyr  
 85 90 95  
 Glu Ala Thr Met Pro Thr Leu Pro Gln Asn Leu Glu Val Thr Lys Ser  
 100 105 110  
 Thr Gly Leu Leu Pro Gly Arg Gly Pro Gly Thr Ser Ala Pro Gly Glu  
 115 120 125  
 Gly Gln Glu Arg Ala Pro Gly Ala Pro Ala Phe Pro Leu Ala Ile Lys  
 130 135 140  
 Met Met Trp Asn Ile Ser Ala Gly Ser Ser Ser Glu Ala Ile Leu Asn  
 145 150 155 160  
 Thr Met Ser Gln Glu Leu Val Pro Ala Ser Arg Val Ala Leu Ala Gly  
 165 170 175  
 Glu Tyr Gly Ala Val Thr Tyr Arg Lys Ser Lys Arg Gly Pro Lys Gln  
 180 185 190  
 Leu Ala Pro His Pro Asn Ile Ile Arg Val Leu Arg Ala Phe Thr Ser  
 195 200 205  
 Ser Val Pro Leu Leu Pro Gly Ala Leu Val Asp Tyr Pro Asp Val Leu  
 210 215 220  
 Pro Ser Arg Leu His Pro Glu Gly Leu Gly His Gly Arg Thr Leu Phe  
 225 230 235 240  
 Leu Val Met Lys Asn Tyr Pro Cys Thr Leu Arg Gln Tyr Leu Cys Val  
 245 250 255  
 Asn Thr Pro Ser Pro Arg Leu Ala Ala Met Met Leu Leu Gln Leu Leu  
 260 265 270  
 Glu Gly Val Asp His Leu Val Gln Gln Gly Ile Ala His Arg Asp Leu  
 275 280 285  
 Lys Ser Asp Asn Ile Leu Val Glu Leu Asp Pro Asp Gly Cys Pro Trp  
 290 295 300  
 Leu Val Ile Ala Asp Phe Gly Cys Cys Leu Ala Asp Glu Ser Ile Gly  
 305 310 315 320  
 Leu Gln Leu Pro Phe Ser Ser Trp Tyr Val Asp Arg Gly Gly Asn Gly  
 325 330 335  
 Cys Leu Met Ala Pro Glu Val Ser Thr Ala Arg Pro Gly Pro Arg Ala  
 340 345 350  
 Val Ile Asp Tyr Ser Lys Ala Asp Ala Trp Ala Val Gly Ala Ile Ala  
 355 360 365  
 Tyr Glu Ile Phe Gly Leu Val Asn Pro Phe Tyr Gly Gln Gly Lys Ala  
 370 375 380  
 His Leu Glu Ser Arg Ser Tyr Gln Glu Ala Gln Leu Pro Ala Leu Pro  
 385 390 395 400  
 Glu Ser Val Pro Pro Asp Val Arg Gln Leu Val Arg Ala Leu Leu Gln  
 405 410 415  
 Arg Glu Ala Ser Lys Arg Pro Ser Ala Arg Val Ala Ala Asn Val Leu  
 420 425 430  
 His Leu Ser Leu Trp Gly Glu His Ile Leu Ala Leu Lys Asn Leu Lys  
 435 440 445  
 Leu Asp Lys Met Val Gly Trp Leu Leu Gln Gln Ser Ala Ala Thr Leu  
 450 455 460  
 Leu Ala Asn Arg Leu Thr Glu Lys Cys Cys Val Glu Thr Lys Met Lys  
 465 470 475 480  
 Met Leu Phe Leu Ala Asn Leu Glu Cys Glu Thr Leu Cys Gln Ala Ala  
 485 490 495  
 Leu Leu Leu Cys Ser Trp Arg Ala Ala Leu  
 500 505 506

&lt;210&gt; 1109

&lt;211&gt; 382

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1109

```

Arg Pro Leu Leu Arg Leu Ala Glu Leu Pro Asp His Cys Tyr Arg Met
 1           5           10           15
Asn Ser Ser Pro Ala Gly Thr Pro Ser Pro Gln Pro Ser Arg Ala Asn
      20           25           30
Gly Asn Ile Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala Gln Pro Thr
      35           40           45
Asp Phe Asp Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys Val
      50           55           60
Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys Val
      65           70           75           80
Leu Gln Lys Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile Met
      85           90           95
Ala Glu Arg Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu Val
      100          105          110
Gly Leu Arg Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val Leu
      115          120          125
Asp Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg
      130          135          140
Arg Phe Leu Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Val Ala Ser
      145          150          155          160
Ala Ile Gly Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu Lys
      165          170          175
Pro Glu Asn Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr Asp
      180          185          190
Phe Gly Leu Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser Thr
      195          200          205
Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys Glu
      210          215          220
Pro Tyr Asp Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr
      225          230          235          240
Glu Met Leu His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser Gln
      245          250          255
Met Tyr Glu Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly Arg
      260          265          270
Thr Val Ala Ala Cys Asp Leu Leu Gln Ser Leu Leu His Lys Asp Gln
      275          280          285
Arg Gln Arg Leu Gly Ser Lys Ala Asp Phe Leu Glu Ile Lys Asn His
      290          295          300
Val Phe Phe Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg Leu
      305          310          315          320
Thr Pro Pro Phe Asn Pro Asn Val Thr Gly Pro Ala Asp Leu Lys His
      325          330          335
Phe Asp Pro Glu Phe Thr Gln Glu Ala Val Ser Lys Ser Ile Gly Cys
      340          345          350
Thr Pro Asp Thr Val Ala Ser Ser Ser Gly Ala Ser Ser Ala Phe Leu
      355          360          365
Gly Phe Ser Tyr Ala Pro Glu Asp Asp Asp Ile Leu Asp Cys
      370          375          380          382

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&lt;210&gt; 1110

&lt;211&gt; 535

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1110

Arg	Pro	Gln	Thr	Leu	Lys	Gly	His	Gln	Glu	Lys	Ile	Arg	Gln	Arg	Gln
1				5					10				15		
Ser	Ile	Leu	Pro	Pro	Pro	Gln	Gly	Pro	Ala	Pro	Ile	Pro	Phe	Gln	His
			20					25					30		
Arg	Gly	Gly	Asp	Ser	Pro	Glu	Ala	Lys	Asn	Arg	Val	Gly	Pro	Gln	Val
	35						40					45			
Pro	Leu	Ser	Glu	Pro	Gly	Phe	Arg	Arg	Arg	Glu	Ser	Gln	Glu	Glu	Pro
	50					55					60				
Arg	Ala	Val	Leu	Ala	Gln	Lys	Ile	Glu	Lys	Glu	Thr	Gln	Ile	Leu	Asn
	65				70					75					80
Cys	Ala	Leu	Asp	Asp	Ile	Glu	Trp	Phe	Val	Ala	Arg	Leu	Gln	Lys	Ala
			85						90					95	
Ala	Glu	Ala	Phe	Lys	Gln	Leu	Asn	Gln	Arg	Lys	Lys	Gly	Lys	Lys	Lys
			100					105					110		
Gly	Lys	Lys	Ala	Pro	Ala	Glu	Gly	Val	Leu	Thr	Leu	Arg	Ala	Arg	Pro
	115					120					125				
Pro	Ser	Glu	Gly	Glu	Phe	Ile	Asp	Cys	Phe	Gln	Lys	Ile	Lys	Leu	Ala
	130				135						140				
Ile	Asn	Leu	Leu	Ala	Lys	Leu	Gln	Lys	His	Ile	Gln	Asn	Pro	Ser	Ala
	145				150					155					160
Ala	Glu	Leu	Val	His	Phe	Leu	Phe	Gly	Pro	Leu	Asp	Leu	Ile	Val	Asn
				165					170					175	
Thr	Cys	Ser	Gly	Pro	Asp	Ile	Ala	Arg	Ser	Val	Ser	Cys	Pro	Leu	Leu
			180					185					190		
Ser	Arg	Asp	Ala	Val	Asp	Phe	Leu	Arg	Gly	His	Leu	Val	Pro	Lys	Glu
	195					200					205				
Met	Ser	Leu	Trp	Glu	Ser	Leu	Gly	Glu	Ser	Trp	Met	Arg	Pro	Arg	Ser
	210					215					220				
Glu	Trp	Pro	Arg	Glu	Pro	Gln	Val	Pro	Leu	Tyr	Val	Pro	Lys	Phe	His
	225				230					235					240
Ser	Gly	Trp	Glu	Pro	Pro	Val	Asp	Val	Leu	Gln	Glu	Ala	Pro	Trp	Glu
				245					250					255	
Val	Glu	Gly	Leu	Ala	Ser	Ala	Pro	Ile	Glu	Glu	Val	Ser	Pro	Val	Ser
			260					265					270		
Arg	Gln	Ser	Ile	Arg	Asn	Ser	Gln	Lys	His	Ser	Pro	Thr	Ser	Glu	Pro
	275						280					285			
Thr	Pro	Pro	Gly	Asp	Ala	Leu	Pro	Pro	Val	Ser	Ser	Pro	His	Thr	His
	290					295					300				
Arg	Gly	Tyr	Gln	Pro	Thr	Pro	Ala	Met	Ala	Lys	Tyr	Val	Lys	Ile	Leu
	305				310					315					320
Tyr	Asp	Phe	Thr	Ala	Arg	Asn	Ala	Asn	Glu	Leu	Ser	Val	Leu	Lys	Asp
				325					330					335	
Glu	Val	Leu	Glu	Val	Leu	Glu	Asp	Gly	Arg	Gln	Trp	Trp	Lys	Leu	Arg
			340					345					350		
Ser	Arg	Ser	Gly	Gln	Ala	Gly	Tyr	Val	Pro	Cys	Asn	Ile	Leu	Gly	Glu
	355					360					365				
Ala	Arg	Pro	Glu	Asp	Ala	Gly	Ala	Pro	Phe	Glu	Gln	Ala	Gly	Gln	Lys
	370					375					380				
Tyr	Trp	Gly	Pro	Ala	Ser	Pro	Thr	His	Lys	Leu	Pro	Pro	Ser	Phe	Pro
	385				390					395					400
Gly	Asn	Lys	Asp	Glu	Leu	Met	Gln	His	Met	Asp	Glu	Val	Asn	Asp	Glu
				405					410					415	
Leu	Ile	Arg	Lys	Ile	Ser	Asn	Ile	Arg	Ala	Gln	Pro	Gln	Arg	His	Phe
			420					425					430		
Arg	Val	Glu	Arg	Ser	Gln	Pro	Val	Ser	Gln	Pro	Leu	Thr	Tyr	Glu	Ser
	435						440					445			
Gly	Pro	Asp	Glu	Val	Arg	Ala	Trp	Leu	Glu	Ala	Lys	Ala	Phe	Ser	Pro
	450					455					460				
Arg	Ile	Val	Glu	Asn	Leu	Gly	Ile	Leu	Thr	Gly	Pro	Gln	Leu	Phe	Ser
	465				470					475					480
Leu	Asn	Lys	Glu	Glu	Leu	Lys	Lys	Val	Cys	Gly	Glu	Glu	Gly	Val	Arg
				485					490					495	
Val	Tyr	Ser	Gln	Leu	Thr	Met	Gln	Lys	Ala	Phe	Leu	Glu	Lys	Gln	Gln

500 505 510  
 Ser Gly Ser Glu Leu Glu Glu Leu Met Asn Lys Phe His Ser Met Asn  
 515 520 525  
 Gln Arg Arg Gly Glu Asp Ser  
 530 535

<210> 1111  
 <211> 346  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(346)  
 <223> X = any amino acid or stop code

<400> 1111  
 Ala Trp His Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu  
 1 5 10 15  
 Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val  
 20 25 30  
 Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu  
 35 40 45  
 Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys  
 50 55 60  
 Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr  
 65 70 75 80  
 Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala  
 85 90 95  
 Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe  
 100 105 110  
 Gly Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser  
 115 120 125  
 Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly  
 130 135 140  
 Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu  
 145 150 155 160  
 Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly  
 165 170 175  
 Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu  
 180 185 190  
 Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile  
 195 200 205  
 Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr  
 210 215 220  
 Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro  
 225 230 235 240  
 Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly  
 245 250 255  
 Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Ala  
 260 265 270  
 Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His  
 275 280 285  
 Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser  
 290 295 300  
 Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu  
 305 310 315 320  
 Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu Xaa Thr Arg  
 325 330 335

Gln Lys Val Gly Phe Cys Ile Arg His Leu  
 340 345 346

<210> 1112  
 <211> 647  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1112  
 Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala  
 1 5 10 15  
 Val Gly Trp Leu Pro Leu Ala Gln Gln Pro Leu Pro Pro Ala Pro Gly  
 20 25 30  
 Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly  
 35 40 45  
 Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr  
 50 55 60  
 Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly  
 65 70 75 80  
 Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn  
 85 90 95  
 Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln  
 100 105 110  
 Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val  
 115 120 125  
 Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala  
 130 135 140  
 Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro  
 145 150 155 160  
 Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe  
 165 170 175  
 Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr  
 180 185 190  
 Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile  
 195 200 205  
 Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly  
 210 215 220  
 Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu  
 225 230 235 240  
 Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg  
 245 250 255  
 Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile  
 260 265 270  
 Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser  
 275 280 285  
 Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys  
 290 295 300  
 Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys  
 305 310 315 320  
 Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala  
 325 330 335  
 Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn  
 340 345 350  
 Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val  
 355 360 365  
 Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala  
 370 375 380  
 Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile  
 385 390 395 400

Ala Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Arg Ile Tyr His  
 405 410 415  
 Gln Asn Gln Arg Ala Asp Lys Arg Arg Ala Gln Gln Lys Val Arg Leu  
 420 425 430  
 Ala Arg Ile Arg Leu Ala Lys Ser Gly Thr Thr Asn Ala Phe Leu Gln  
 435 440 445  
 Tyr Lys Gln Asn Gly Gly Leu Glu Asp Ser Gly Ser Gly Glu Glu Gln  
 450 455 460  
 Ala Val Cys Val Arg Asn Arg Ser Ala Phe Glu Gln Gln His His His  
 465 470 475 480  
 Leu Leu His Cys Leu Glu Lys Thr Thr Cys His Glu Phe Thr Asp Glu  
 485 490 495  
 Leu Thr Phe Ser Glu Ala Leu Gly Ala Val Ser Pro Gly Gly Arg Thr  
 500 505 510  
 Ser Arg Ser Thr Ser Val Ser Ser Gln Pro Val Gly Pro Gly Ser Leu  
 515 520 525  
 Leu Ser Ser Cys Cys Pro Arg Arg Ala Lys Arg Arg Ala Ile Arg Leu  
 530 535 540  
 Ala Asn Ser Thr Ala Ser Val Ser Arg Gly Ser Met Gln Glu Leu Asp  
 545 550 555 560  
 Met Leu Ala Gly Leu Arg Arg Ser His Ala Pro Gln Ser Arg Ser Ser  
 565 570 575  
 Leu Asn Ala Lys Pro His Asp Ser Leu Asp Leu Asn Cys Asp Ser Gly  
 580 585 590  
 Asp Phe Val Ala Ala Ile Ile Ser Ile Pro Thr Pro Pro Ala Asn Thr  
 595 600 605  
 Pro Asp Glu Ser Gln Pro Ser Ser Pro Gly Gly Gly Gly Arg Ala Gly  
 610 615 620  
 Ser Thr Leu Arg Asn Ser Ser Leu Gly Thr Pro Cys Leu Phe Pro Glu  
 625 630 635 640  
 Thr Val Lys Ile Ser Ser Leu  
 645 647

&lt;210&gt; 1113

&lt;211&gt; 220

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(220)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1113

Gly Trp Gly Lys Pro Phe Lys Asp Trp Thr Thr Gly Gly Gln Asp Thr  
 1 5 10 15  
 Gly Gly Glu Pro Ala Leu Leu Val Gly Ala Gly Glu Gly Arg Ala Pro  
 20 25 30  
 Arg Leu Asn Cys Pro Ser Gly Gln Ile Arg Ser Pro Gly Pro Gly Asp  
 35 40 45  
 Leu Ser Ile Tyr Asp Asn Trp Ile Arg Tyr Phe Asn Arg Ser Ser Pro  
 50 55 60  
 Val Tyr Gly Leu Val Pro Arg Ser Lys Thr Ser Ala Arg Ile Tyr Pro  
 65 70 75 80  
 Thr Tyr His Thr Ala Phe Asp Thr Phe Asp Tyr Val Asp Lys Phe Leu  
 85 90 95  
 Asp Pro Gly Glu Glu Gly Asp Lys Gly His Pro Glu Thr Arg Thr Gly  
 100 105 110  
 Glu Ala Glu Asp Xaa Ala Leu Ala Leu Ser Pro Cys Arg Arg Phe Ser



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<210> 1114
<211> 382
<212> Amino acid
<213> Homo sapiens
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641

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305          310          315          320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr
          325          330          335
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg
          340          345          350
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro
          355          360          365
Pro Gly Gly Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
          370          375          380          382

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<210> 1115
<211> 109
<212>Amino acid
<213> Homo sapiens

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```

<400> 1115
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu
 1          5          10          15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala
          20          25          30
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys
          35          40          45
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser
          50          55          60
Ser Leu Arg Tyr Glu Leu Leu Glu Glu Lys Ser Gln Ala Thr Gly Glu
          65          70          75          80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu
          85          90          95
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile
          100          105          109

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<210> 1116
<211> 679
<212>Amino acid
<213> Homo sapiens

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<400> 1116
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser
 1          5          10          15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu
          20          25          30
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala
          35          40          45
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val
          50          55          60
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys
          65          70          75          80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys
          85          90          95
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly
          100          105          110
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser
          115          120          125
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Lys

```

	130					135					140									
Ile	Arg	His	Phe	Val	Ser	Leu	Lys	Lys	Leu	Cys	Cys	Thr	Thr	Asp	Asn					
145					150					155					160					
Asn	Lys	Gln	Ile	His	Lys	Ile	His	Arg	Asp	Ser	Gly	Asp	Asn	Ser	Gln					
				165					170						175					
Thr	Glu	Pro	His	Ser	Phe	Arg	Tyr	Lys	Asn	Arg	Arg	Lys	Glu	Ser	Ile					
				180					185						190					
Asp	Val	Lys	Ser	Ile	Ser	Ser	Arg	Gly	Ser	Asp	Ala	Pro	Ser	Leu	Gln					
		195					200					205								
Asn	Arg	Arg	Tyr	Pro	Ser	Met	Ala	Arg	Ile	His	Ser	Met	Thr	Ile	Glu					
	210					215					220									
Ala	Pro	Ile	Thr	Lys	Val	Ile	Asn	Ile	Ile	Asn	Ala	Ala	Gln	Glu	Asn					
225					230					235					240					
Ser	Pro	Val	Thr	Val	Ala	Glu	Ala	Leu	Asp	Arg	Val	Leu	Glu	Ile	Leu					
				245						250					255					
Arg	Thr	Thr	Glu	Leu	Tyr	Ser	Pro	Gln	Leu	Gly	Thr	Lys	Asp	Glu	Asp					
				260				265						270						
Pro	His	Thr	Ser	Asp	Leu	Val	Gly	Gly	Leu	Met	Thr	Asp	Gly	Leu	Arg					
				275			280					285								
Arg	Leu	Ser	Gly	Asn	Glu	Tyr	Val	Phe	Thr	Lys	Asn	Val	His	Gln	Ser					
	290					295					300									
His	Ser	His	Leu	Ala	Met	Pro	Ile	Thr	Ile	Asn	Asp	Val	Pro	Pro	Cys					
305					310					315					320					
Ile	Ser	Gln	Leu	Leu	Asp	Asn	Glu	Glu	Ser	Trp	Asp	Phe	Asn	Ile	Phe					
				325						330				335						
Glu	Leu	Glu	Ala	Ile	Thr	His	Lys	Arg	Pro	Leu	Val	Tyr	Leu	Gly	Leu					
				340				345					350							
Lys	Val	Phe	Ser	Arg	Phe	Gly	Val	Cys	Glu	Phe	Leu	Asn	Cys	Ser	Glu					
				355			360					365								
Thr	Thr	Leu	Arg	Ala	Trp	Phe	Gln	Val	Ile	Glu	Ala	Asn	Tyr	His	Ser					
	370					375					380									
Ser	Asn	Ala	Tyr	His	Asn	Ser	Thr	His	Ala	Ala	Asp	Val	Leu	His	Ala					
385					390					395					400					
Thr	Ala	Phe	Phe	Leu	Gly	Lys	Glu	Arg	Val	Lys	Gly	Ser	Leu	Asp	Gln					
				405					410					415						
Leu	Asp	Glu	Val	Ala	Ala	Leu	Ile	Ala	Ala	Thr	Val	His	Asp	Val	Asp					
				420				425				430								
His	Pro	Gly	Arg	Thr	Asn	Ser	Phe	Leu	Cys	Asn	Ala	Gly	Ser	Glu	Leu					
	435					440					445									
Ala	Val	Leu	Tyr	Asn	Asp	Thr	Ala	Val	Leu	Glu	Ser	His	His	Thr	Ala					
	450					455					460									
Leu	Ala																			

645                          650                          655  
Pro Ser Asp Arg Leu Lys Pro Ser His Arg Gly Gly Leu Leu Thr Asp  
                    660                          665                          670  
Lys Gly His Cys Glu Ser Gln  
                    675                          679

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<210> 1117
<211> 1193
<212> Amino acid
<213> Homo sapiens
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<400> 1117																
Ala 1	Phe	Leu	Ser	Lys 5	Val	Glu	Glu	Asp	Asp 10	Tyr	Pro	Ser	Glu	Glu 15	Leu	
Leu	Glu	Asp	Glu	Asn 20	Ala	Ile	Asn	Ala 25	Lys	Arg	Ser	Lys	Glu 30	Lys	Asn	
Pro	Gly	Asn 35	Gln	Gly	Arg	Gln	Phe 40	Asp	Val	Asn	Leu	Gln	Val 45	Pro	Asp	
Arg	Ala 50	Val	Leu	Gly	Thr	Ile 55	His	Pro	Asp	Pro	Glu	Ile 60	Glu	Glu	Ser	
Lys 65	Gln	Glu	Thr	Ser	Met 70	Ile	Leu	Asp	Ser	Glu	Lys	Thr	Ser	Glu	Thr 80	
Ala	Ala	Lys	Gly	Val 85	Asn	Thr	Gly	Gly 90	Arg	Glu	Pro	Asn	Thr 95	Met	Val	
Glu	Lys	Glu	Arg	Pro 100	Leu	Ala	Asp	Lys 105	Lys	Ala	Gln	Arg	Pro 110	Phe	Glu	
Arg	Ser	Asp 115	Phe	Ser	Asp	Ser	Ile 120	Lys	Ile	Gln	Thr	Pro 125	Glu	Leu	Gly	
Glu	Val 130	Phe	Gln	Asn	Lys	Asp	Ser 135	Asp	Tyr	Leu	Lys	Asn	Asp 140	Asn	Pro	
Glu 145	Glu	His	Leu	Lys 150	Thr	Ser	Gly	Leu	Ala	Gly	Glu	Pro	Glu	Gly 160	Glu	
Leu	Ser	Lys	Glu	Asp 165	His	Glu	Asn	Thr	Glu	Lys	Tyr	Met	Gly 175	Thr	Glu	
Ser	Gln	Gly	Ser	Ala 180	Ala	Ala	Glu	Pro 185	Glu	Asp	Asp	Ser	Phe 190	His	Trp	
Thr	Pro	His 195	Thr	Ser	Val	Glu	Pro 200	Gly	His	Ser	Asp	Lys 205	Arg	Glu	Asp	
Leu	Leu 210	Ile	Ile	Ser	Ser	Phe	Phe 215	Lys	Glu	Gln	Gln	Ser	Leu 220	Gln	Arg	
Phe 225	Gln	Lys	Tyr	Phe	Asn 230	Val	His	Glu	Leu	Glu	Ala	Leu	Leu 240	Gln	Glu	
Met	Ser	Ser	Lys	Leu 245	Lys	Ser	Ala	Gln	Gln	Glu	Ser	Leu	Pro 255	Tyr	Asn	
Met	Glu	Lys	Val	Leu 260	Asp	Lys	Val	Phe 265	Arg	Ala	Ser	Glu	Ser 270	Gln	Ile	
Leu	Ser	Ile 275	Ala	Glu	Lys	Met	Leu 280	Asp	Thr	Arg	Val	Ala 285	Glu	Asn	Arg	
Asp	Leu 290	Gly	Met	Asn	Glu	Asn	Asn 295	Ile	Phe	Glu	Glu	Ala	Ala 300	Val	Leu	
Asp 305	Asp	Ile	Gln	Asp	Leu 310	Ile	Tyr	Phe	Val	Arg	Tyr	Lys	His	Ser	Thr 320	
Ala	Glu	Glu	Thr	Ala 325	Thr	Leu	Val	Met	Ala	Pro	Pro	Leu	Glu	Glu 335	Gly	
Leu	Gly	Gly	Ala	Met 340	Glu	Glu	Met	Gln	Pro	Leu	His	Glu	Asp 350	Asn	Phe	
Ser	Arg	Glu	Lys	Thr	Ala	Glu	Leu 360	Asn	Val	Gln	Val	Pro	Glu	Glu	Pro	
Thr	His	Leu	Asp	Gln	Arg	Val	Ile	Gly	Asp	Thr	His	Ala	Ser	Glu	Val	

370	375	380
Ser Gln Lys Pro Asn Thr	Glu Lys Asp Leu Asp Pro Gly Pro Val Thr	
385	390	395
Thr Glu Asp Thr Pro Met Asp Ala Ile Asp Ala Asn Lys Gln Pro Glu		400
	405	410
Thr Ala Ala Glu Glu Pro Ala Ser Val Thr Pro Leu Glu Asn Ala Ile		415
	420	425
Leu Leu Ile Tyr Ser Phe Met Phe Tyr Leu Thr Lys Ser Leu Val Ala		430
	435	440
Thr Leu Pro Asp Asp Val Gln Pro Gly Pro Asp Phe Tyr Gly Leu Pro		445
	450	455
Trp Lys Pro Val Phe Ile Thr Ala Phe Leu Gly Ile Ala Ser Phe Ala		460
465	470	475
Ile Phe Leu Trp Arg Thr Val Leu Val Val Lys Asp Arg Val Tyr Gln		480
	485	490
Val Thr Glu Gln Gln Ile Ser Glu Lys Leu Lys Thr Ile Met Lys Glu		495
	500	505
Asn Thr Glu Leu Val Gln Lys Leu Ser Asn Tyr Glu Gln Lys Ile Lys		510
	515	520
Glu Ser Lys Lys His Val Gln Glu Thr Arg Lys Gln Asn Met Ile Leu		525
	530	535
Ser Asp Glu Ala Ile Lys Tyr Lys Asp Lys Ile Lys Thr Leu Glu Lys		540
545	550	555
Asn Gln Glu Ile Leu Asp Asp Thr Ala Lys Asn Leu Arg Val Met Leu		560
	565	570
Glu Ser Glu Arg Glu Gln Asn Val Lys Asn Gln Asp Leu Ile Ser Glu		575
	580	585
Asn Lys Lys Ser Ile Glu Lys Leu Lys Asp Val Ile Ser Met Asn Ala		590
	595	600
Ser Glu Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser		605
	610	615
Glu Glu Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala		620
625	630	635
Arg Leu Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp		640
	645	650
Ser Lys Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys		655
	660	665
Ser Gln Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile		670
	675	680
Asn Ala Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu		685
	690	695
Ser Glu Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu		700
705	710	715
Ala Asn Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln		720
	725	730
Ile Lys Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val		735
	740	745
Val Glu Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val		750
	755	760
Ser Thr Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp		765
	770	775
Arg Asn Ser Leu Gln Ala Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys		780
785	790	795
Thr Leu Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys		800
	805	810
Glu Met Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln		815
	820	825
Glu Arg Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala		830
	835	840
Ala Glu Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp		845
	850	855
Glu Leu Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His		860
865	870	875
Glu Lys Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg		880

885 890 895  
 Ala Ile Ala Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu  
 900 905 910  
 Leu Asp Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile  
 915 920 925  
 Val Lys Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg  
 930 935 940  
 Gly Pro Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly  
 945 950 955 960  
 Gly Glu Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu  
 965 970 975  
 Ser Ala Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser  
 980 985 990  
 Leu Asp Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly  
 995 1000 1005  
 Lys Pro Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn  
 1010 1015 1020  
 Ser Ser Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys  
 1025 1030 1035 1040  
 Val Asn Met Ala Pro Lys Gly Pro Pro Phe Pro Gly Val Pro Leu  
 1045 1050 1055  
 Met Ser Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly  
 1060 1065 1070  
 Pro Pro Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg Pro Leu Pro Pro  
 1075 1080 1085  
 Pro Phe Gly Pro Gly Met Arg Pro Pro Leu Gly Leu Arg Glu Phe Ala  
 1090 1095 1100  
 Pro Gly Val Pro Pro Gly Arg Arg Asp Leu Pro Leu His Pro Arg Gly  
 1105 1110 1115 1120  
 Phe Leu Pro Gly His Ala Pro Phe Arg Pro Leu Gly Ser Leu Gly Pro  
 1125 1130 1135  
 Arg Glu Tyr Phe Ile Pro Gly Thr Arg Leu Pro Pro Pro Thr His Gly  
 1140 1145 1150  
 Pro Gln Glu Tyr Pro Pro Pro Pro Ala Val Arg Asp Leu Leu Pro Ser  
 1155 1160 1165  
 Gly Ser Arg Asp Glu Pro Pro Ala Ser Gln Ser Thr Ser Gln Asp  
 1170 1175 1180  
 Cys Ser Gln Ala Leu Lys Gln Ser Pro  
 1185 1190 1193

&lt;210&gt; 1118

&lt;211&gt; 981

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1118

Met Ala Ala Asp Ser Glu Pro Glu Ser Glu Val Phe Glu Ile Thr Asp  
 1 5 10 15  
 Phe Thr Thr Ala Ser Glu Trp Glu Arg Phe Ile Ser Lys Val Glu Glu  
 20 25 30  
 Val Leu Asn Asp Trp Lys Leu Ile Gly Asn Ser Leu Gly Lys Pro Leu  
 35 40 45  
 Glu Lys Gly Ile Phe Thr Ser Gly Thr Trp Glu Glu Lys Ser Asp Glu  
 50 55 60  
 Ile Ser Phe Ala Asp Phe Lys Phe Ser Val Thr His His Tyr Leu Val  
 65 70 75 80  
 Gln Glu Ser Thr Asp Lys Glu Gly Lys Asp Glu Leu Leu Glu Asp Val  
 85 90 95  
 Val Pro Gln Ser Met Gln Asp Leu Leu Gly Met Asn Asn Asp Phe Pro

100	105	110
Pro Arg Ala His Cys Leu Val	Arg Trp Tyr Gly Leu	Arg Glu Phe Val
115	120	125
Val Ile Ala Pro Ala Ala His	Ser Asp Ala Val Leu Ser	Glu Ser Lys
130	135	140
Cys Asn Leu Leu Leu Ser Ser	Val Ser Ile Ala Leu Gly	Asn Thr Gly
145	150	155
Cys Gln Val Pro Leu Phe Val	Gln Ile His His Lys Trp	Arg Arg Met
165	170	175
Tyr Val Gly Glu Cys Gln Gly	Pro Gly Val Arg Thr Asp	Phe Glu Met
180	185	190
Val His Leu Arg Lys Val Pro	Asn Gln Tyr Thr His Leu	Ser Gly Leu
195	200	205
Leu Asp Ile Phe Lys Ser Lys	Ile Gly Cys Pro Leu Thr	Pro Leu Pro
210	215	220
Pro Val Ser Ile Ala Ile Arg	Phe Thr Tyr Val Leu Gln	Asp Trp Gln
225	230	235
Gln Tyr Phe Trp Pro Gln Gln	Pro Pro Asp Ile Asp Ala	Leu Val Gly
245	250	255
Gly Glu Val Gly Gly Leu Glu	Phe Gly Lys Leu Pro Phe	Gly Ala Cys
260	265	270
Glu Asp Pro Ile Ser Glu Leu	His Leu Ala Thr Thr Trp	Pro His Leu
275	280	285
Thr Glu Gly Ile Ile Val Asp	Asn Asp Val Tyr Ser Asp	Leu Asp Pro
290	295	300
Ile Gln Ala Pro His Trp Ser	Val Arg Val Arg Lys Ala	Glu Asn Pro
305	310	315
Gln Cys Leu Leu Gly Asp Phe	Val Thr Glu Phe Phe Lys	Ile Cys Arg
325	330	335
Arg Lys Glu Ser Thr Asp Glu	Ile Leu Gly Arg Ser Ala	Phe Glu Glu
340	345	350
Glu Gly Lys Glu Thr Ala Asp	Ile Thr His Ala Leu Ser	Lys Leu Thr
355	360	365
Glu Pro Ala Ser Val Pro Ile	His Lys Leu Ser Val Ser	Asn Met Val
370	375	380
His Thr Ala Lys Lys Lys Ile	Arg Lys His Arg Gly Val	Glu Glu Ser
385	390	395
Pro Leu Asn Asn Asp Val Leu	Asn Thr Ile Leu Leu Phe	Leu Phe Pro
405	410	415
Asp Ala Val Ser Glu Lys Pro	Leu Asp Gly Thr Thr Ser	Thr Asp Asn
420	425	430
Asn Asn Pro Pro Ser Glu Ser	Glu Asp Tyr Asn Leu Tyr	Asn Gln Phe
435	440	445
Lys Ser Ala Pro Ser Asp Ser	Leu Thr Tyr Lys Leu Ala	Leu Cys Leu
450	455	460
Cys Met Ile Asn Phe Tyr His	Gly Gly Leu Lys Gly Val	Ala His Leu
465	470	475
Trp.Gln Glu Phe Val Leu Glu	Met Arg Phe Arg Trp Glu	Asn Asn Phe
485	490	495
Leu Ile Pro Gly Leu Ala Ser	Gly Pro Pro Asp Leu Arg	Cys Cys Leu
500	505	510
Leu His Gln Lys Leu Gln Met	Leu Asn Cys Cys Ile Glu	Arg Lys Lys
515	520	525
Ala Arg Asp Glu Gly Lys Lys	Thr Ser Ala Ser Asp Val	Thr Asn Ile
530	535	540
Tyr Pro Gly Asp Ala Gly Lys	Ala Gly Asp Gln Leu Val	Pro Asp Asn
545	550	555
Leu Lys Glu Thr Asp Lys Glu	Lys Gly Glu Val Gly Lys	Ser Trp Asp
565	570	575
Ser Trp Ser Asp Ser Glu Glu	Glu Phe Phe Glu Cys Leu	Ser Asp Thr
580	585	590
Glu Glu Leu Lys Gly Asn Gly	Gln Glu Ser Gly Lys Lys	Gly Gly Pro
595	600	605
Lys Glu Met Ala Asn Leu Arg	Pro Glu Gly Arg Leu Tyr	Gln His Gly

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        610                615                620
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr
625                630                635                640
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu
        645                650                655
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala
        660                665                670
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala
        675                680                685
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro
690                695                700
Arg Asp Tyr Ile Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val
705                710                715                720
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp
        725                730                735
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg
        740                745                750
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu
        755                760                765
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val
770                775                780
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Glu Ser Leu Glu Asn
785                790                795                800
Ile Ser Ser Val Lys Lys Ile Ile Lys Gln Ile Ile Ser His Ser Ser
        805                810                815
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile
        820                825                830
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser
        835                840                845
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Lys
        850                855                860
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val
865                870                875                880
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys
        885                890                895
Leu Phe Val Asn Ala Gln Arg Ala Ala Met Thr Pro Pro Glu Glu
        900                905                910
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val
        915                920                925
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr
        930                935                940
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr
945                950                955                960
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser
        965                970                975
Asp Thr Ser Phe Phe
        980 981

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&lt;210&gt; 1119

&lt;211&gt; 554

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

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Ser Pro Thr Arg Thr Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu
1                5                10                15
Thr Glu Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu
        20                25                30
Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile

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649

545

550

554

<210> 1120  
 <211> 107  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1120  
 Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln  
 1 5 10 15  
 Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly  
 20 25 30  
 Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile  
 35 40 45  
 Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val  
 50 55 60  
 Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu  
 65 70 75 80  
 Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro  
 85 90 95  
 Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe  
 100 105 107

<210> 1121  
 <211> 1241  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1121  
 Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val  
 1 5 10 15  
 Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro  
 20 25 30  
 Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val  
 35 40 45  
 Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly  
 50 55 60  
 Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln  
 65 70 75 80  
 Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu  
 85 90 95  
 His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val  
 100 105 110  
 Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met  
 115 120 125  
 Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu  
 130 135 140  
 Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr  
 145 150 155 160  
 Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser  
 165 170 175  
 Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val  
 180 185 190  
 Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

195	200	205
Arg Ser Val Gly Arg Ala Arg Asp Gly Thr Thr Phe Pro Leu Ser Leu		
210	215	220
Lys Leu Lys Ser Gln Pro Ser Ser Glu Glu Ala Thr Thr Gly Glu Ala		
225	230	235
Ala Pro Val Ser Gly Tyr Arg Ala Ser Val Trp Val Phe Cys Thr Ile		240
245	250	255
Ser Gly Leu Ile Thr Leu Leu Pro Asp Gly Thr Ile His Gly Ile Asn		
260	265	270
His Ser Phe Ala Leu Thr Leu Phe Gly Tyr Gly Lys Thr Glu Leu Leu		
275	280	285
Gly Lys Asn Ile Thr Phe Leu Ile Pro Gly Phe Tyr Ser Tyr Met Asp		
290	295	300
Leu Ala Tyr Asn Ser Ser Leu Gln Leu Pro Asp Leu Ala Ser Cys Leu		
305	310	315
Asp Val Gly Asn Glu Ser Gly Cys Gly Glu Arg Thr Leu Asp Pro Trp		
325	330	335
Gln Gly Gln Asp Pro Ala Glu Gly Gly Gln Asp Pro Arg Ile Asn Val		
340	345	350
Val Leu Ala Gly Gly His Val Val Pro Arg Asp Glu Ile Arg Lys Leu		
355	360	365
Met Glu Ser Gln Asp Ile Phe Thr Gly Thr Gln Thr Glu Leu Ile Ala		
370	375	380
Gly Gly Gln Leu Leu Ser Cys Leu Ser Pro Gln Pro Ala Pro Gly Val		
385	390	395
Asp Asn Val Pro Glu Gly Ser Leu Pro Val His Gly Glu Gln Ala Leu		400
405	410	415
Pro Lys Asp Gln Gln Ile Thr Ala Leu Gly Arg Glu Glu Pro Val Ala		
420	425	430
Ile Glu Ser Pro Gly Gln Asp Leu Leu Gly Glu Ser Arg Ser Glu Pro		
435	440	445
Val Asp Val Lys Pro Phe Ala Ser Cys Glu Asp Ser Glu Ala Pro Val		
450	455	460
Pro Ala Glu Asp Gly Gly Ser Asp Ala Gly Met Cys Gly Leu Cys Gln		
465	470	475
Lys Ala Gln Leu Glu Arg Met Gly Val Ser Gly Pro Ser Gly Ser Asp		
485	490	495
Leu Trp Ala Gly Ala Ala Val Ala Lys Pro Gln Ala Lys Gly Gln Leu		
500	505	510
Ala Gly Gly Ser Leu Leu Met His Cys Pro Cys Tyr Gly Ser Glu Trp		
515	520	525
Gly Leu Trp Trp Arg Ser Gln Asp Leu Ala Pro Ser Pro Ser Gly Met		
530	535	540
Ala Gly Leu Ser Phe Gly Thr Pro Thr Leu Asp Glu Pro Trp Leu Gly		
545	550	555
Val Glu Asn Asp Arg Glu Glu Leu Gln Thr Cys Leu Ile Lys Glu Gln		
565	570	575
Leu Ser Gln Leu Ser Leu Ala Gly Ala Leu Asp Val Pro His Ala Glu		
580	585	590
Leu Val Pro Thr Glu Cys Gln Ala Val Thr Ala Pro Val Ser Ser Cys		
595	600	605
Asp Leu Gly Gly Arg Asp Leu Cys Gly Gly Cys Thr Gly Ser Ser Ser		
610	615	620
Ala Cys Tyr Ala Leu Ala Thr Asp Leu Pro Gly Gly Leu Glu Ala Val		
625	630	635
Glu Ala Gln Glu Val Asp Val Asn Ser Phe Ser Trp Asn Leu Lys Glu		
645	650	655
Leu Phe Phe Ser Asp Gln Thr Asp Gln Thr Ser Ser Asn Cys Ser Cys		
660	665	670
Ala Thr Ser Glu Leu Arg Glu Thr Pro Ser Ser Leu Ala Val Gly Ser		
675	680	685
Asp Pro Asp Val Gly Ser Leu Gln Glu Gln Gly Ser Cys Val Leu Asp		
690	695	700
Asp Arg Glu Leu Leu Leu Thr Gly Thr Cys Val Asp Leu Gly Gln		

705					710					715				720	
Gly	Arg	Arg	Phe	Arg	Glu	Ser	Cys	Val	Gly	His	Asp	Pro	Thr	Glu	Pro
				725						730				735	
Leu	Glu	Val	Cys	Leu	Val	Ser	Ser	Glu	His	Tyr	Ala	Ala	Ser	Asp	Arg
			740						745					750	
Glu	Ser	Pro	Gly	His	Val	Pro	Ser	Thr	Leu	Asp	Ala	Gly	Pro	Glu	Asp
		755						760					765		
Thr	Cys	Pro	Ser	Ala	Glu	Glu	Pro	Arg	Leu	Asn	Val	Gln	Val	Thr	Ser
		770					775						780		
Thr	Pro	Val	Ile	Val	Met	Arg	Gly	Ala	Ala	Gly	Leu	Gln	Arg	Glu	Ile
785					790					795					800
Gln	Glu	Gly	Ala	Tyr	Ser	Gly	Ser	Cys	Tyr	His	Arg	Asp	Gly	Leu	Arg
				805						810					815
Leu	Ser	Ile	Gln	Phe	Glu	Val	Arg	Arg	Val	Glu	Leu	Gln	Gly	Pro	Thr
			820						825					830	
Pro	Leu	Phe	Cys	Cys	Trp	Leu	Val	Lys	Asp	Leu	Leu	His	Ser	Gln	Arg
		835						840					845		
Asp	Ser	Ala	Ala	Arg	Thr	Arg	Leu	Phe	Leu	Ala	Ser	Leu	Pro	Gly	Ser
		850					855					860			
Thr	His	Ser	Thr	Ala	Ala	Glu	Leu	Thr	Gly	Pro	Ser	Leu	Val	Glu	Val
865					870					875					880
Leu	Arg	Ala	Arg	Pro	Trp	Phe	Glu	Glu	Pro	Pro	Lys	Ala	Val	Glu	Leu
				885						890					895
Glu	Gly	Leu	Ala	Ala	Cys	Glu	Gly	Glu	Tyr	Ser	Gln	Lys	Tyr	Ser	Thr
			900					905						910	
Met	Ser	Pro	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Phe	Val	Trp	Thr	Ala	Val
		915					920						925		
Asp	Lys	Glu	Lys	Asn	Lys	Glu	Val	Val	Val	Lys	Phe	Ile	Lys	Lys	Glu
		930					935					940			
Lys	Val	Leu	Glu	Asp	Cys	Trp	Ile	Glu	Asp	Pro	Lys	Leu	Gly	Lys	Val
945					950					955					960
Thr	Leu	Glu	Ile	Ala	Ile	Leu	Ser	Arg	Val	Glu	His	Ala	Asn	Ile	Ile
				965						970					975
Lys	Val	Leu	Asp	Ile	Phe	Glu	Asn	Gln	Gly	Phe	Phe	Gln	Leu	Val	Met
			980					985						990	
Glu	Lys	His	Gly	Ser	Gly	Leu	Asp	Leu	Phe	Ala	Phe	Ile	Asp	Arg	His
		995					1000						1005		
Pro	Arg	Leu	Asp	Glu	Pro	Leu	Ala	Ser	Tyr	Ile	Phe	Arg	Gln	Val	Arg
		1010					1015					1020			
Ala	Gly	Gln	Ser	Arg	Leu	Val	Ser	Ala	Val	Gly	Tyr	Leu	Arg	Leu	Lys
1025					1030					1035					1040
Asp	Ile	Ile	His	Arg	Asp	Ile	Lys	Asp	Glu	Asn	Ile	Val	Ile	Ala	Glu
				1045						1050					1055
Asp	Phe	Thr	Ile	Lys	Leu	Ile	Asp	Phe	Gly	Ser	Ala	Ala	Tyr	Leu	Glu
			1060						1065					1070	
Arg	Gly	Lys	Leu	Phe	Tyr	Thr	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Cys	Ala
			1075					1080					1085		
Pro	Glu	Val	Leu	Met	Gly	Asn	Pro	Tyr	Arg	Gly	Pro	Glu	Leu	Glu	Met
		1090					1095					1100			
Trp	Ser	Leu	Gly	Val	Thr	Leu	Tyr	Thr	Leu	Val	Phe	Glu	Glu	Asn	Pro
1105					1110					1115					1120
Phe	Cys	Glu	Leu	Glu	Thr	Val	Glu	Ala	Ala	Ile	His	Pro	Pro	Tyr	
				1125						1130				1135	
Leu	Val	Ser	Lys	Glu	Leu	Met	Ser	Leu	Val	Ser	Gly	Leu	Leu	Gln	Pro
			1140						1145					1150	
Val	Pro	Glu	Arg	Arg	Thr	Thr	Leu	Glu	Lys	Leu	Val	Thr	Asp	Pro	Trp
			1155						1160					1165	
Val	Thr	Gln	Pro	Val	Asn	Leu	Ala	Asp	Tyr	Thr	Trp	Glu	Glu	Val	Phe
		1170					1175						1180		
Arg	Val	Asn	Lys	Pro	Glu	Ser	Gly	Val	Leu	Ser	Ala	Ala	Ser	Leu	Glu
1185					1190					1195					1200
Met	Gly	Asn	Arg	Ser	Leu	Ser	Asp	Val	Ala	Gln	Ala	Gln	Glu	Leu	Cys
				1205						1210				1215	
Gly	Gly	Pro	Val	Pro	Gly	Glu	Ala	Pro	Asn	Gly	Gln	Gly	Cys	Leu	His

1220 1225 1230  
 Pro Gly Asp Pro Arg Leu Leu Thr Ser  
 1235 1240 1241

<210> 1122  
 <211> 395  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1122  
 Pro Gly Thr Ser Ala Ala Thr Cys Arg Phe Leu Ser Pro Pro Val Ile  
 1 5 10 15  
 Ser Leu Ser Phe Thr Gly Leu Cys Ile Ser Asp Leu Val Val Ala Val  
 20 25 30  
 Asn Gly Val Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn  
 35 40 45  
 Phe Phe Ser Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile  
 50 55 60  
 Tyr Gly Val Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu  
 65 70 75 80  
 Tyr Leu Ser Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe  
 85 90 95  
 Ala Phe Leu Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr  
 100 105 110  
 Phe Ile Val Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu  
 115 120 125  
 Lys Glu Arg Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro  
 130 135 140  
 Arg Met Ala Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe  
 145 150 155 160  
 Ala Ile Val Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys  
 165 170 175  
 Cys Asn Thr Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr  
 180 185 190  
 Val Gly Asn Arg Thr Val Val Glu Glu Tyr Tyr Tyr Leu Asn Asn  
 195 200 205  
 Phe Asp Asn Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val  
 210 215 220  
 Val Asn Asn Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser  
 225 230 235 240  
 His Trp Ser Arg Leu Tyr Phe Met Thr Phe Tyr Ile Val Thr Met Val  
 245 250 255  
 Val Met Thr Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg  
 260 265 270  
 Met Asn Tyr Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile  
 275 280 285  
 Thr Leu Glu Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu  
 290 295 300  
 Leu Tyr Arg Glu Ala Arg Gly Ala Ser Ser Asp Val Thr Arg Leu Leu  
 305 310 315 320  
 Glu Thr Leu Ser Gln Met Glu Arg Tyr Gln Gln His Ser Met Val Phe  
 325 330 335  
 Leu Gly Arg Arg Ser Arg Thr Lys Ser Asp Leu Ser Leu Lys Met Tyr  
 340 345 350  
 Gln Glu Glu Ile Gln Glu Trp Tyr Glu Glu His Ala Arg Glu Gln Glu  
 355 360 365  
 Gln Gln Arg Gln Leu Ser Ser Ser Ala Ala Pro Ala Ala Gln Gln Pro  
 370 375 380  
 Pro Gly Ser Arg Gln Arg Ser Gln Thr Val Thr

385

390

395

<210> 1123  
 <211> 328  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1123  
 Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu  
 1 5 10 15  
 Met Ala Ala Gly Gln Asn Gly His Glu Glu Trp Val Gly Ser Ala Tyr  
 20 25 30  
 Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr  
 35 40 45  
 Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala  
 50 55 60  
 Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile  
 65 70 75 80  
 His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg  
 85 90 95  
 Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg  
 100 105 110  
 Ala Ala Leu Gln Arg Ser Leu Ala Ala Leu Ala Gln His Ser Val  
 115 120 125  
 Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu  
 130 135 140  
 Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro  
 145 150 155 160  
 Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg  
 165 170 175  
 Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala  
 180 185 190  
 Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro  
 195 200 205  
 Pro Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro  
 210 215 220  
 Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg  
 225 230 235 240  
 Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly  
 245 250 255  
 Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr  
 260 265 270  
 Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe  
 275 280 285  
 Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala  
 290 295 300  
 Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu  
 305 310 315 320  
 Thr Asp Pro Asn Gly Gly Leu Ala  
 325 328

<210> 1124  
 <211> 667  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(667)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1124

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Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly
 1      5      10      15
Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr
      20      25      30
Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro
      35      40      45
Pro Val Leu Gly Gly Asn Ser Asn Ser Asn Ser Ser Gly Gly Ala Gly
      50      55      60
Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg
      65      70      75      80
Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Gly Ala
      85      90      95
Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe
      100      105      110
Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly
      115      120      125
Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gly Gln Pro Gln Trp
      130      135      140
Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly Gly
      145      150      155      160
Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu
      165      170      175
Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Thr Ala Leu
      180      185      190
Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro
      195      200      205
Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp
      210      215      220
Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr
      225      230      235      240
Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu
      245      250      255
Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser
      260      265      270
Glu Ser Leu Pro Ser Gln Asp Leu Leu Leu Gly Pro Ser Glu Ser Asn
      275      280      285
Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser
      290      295      300
Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp
      305      310      315      320
Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu
      325      330      335
Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro
      340      345      350
Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly
      355      360      365
Glu Pro Glu Gly Gly Glu Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp
      370      375      380
Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr
      385      390      395      400
Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr
      405      410      415
Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys
      420      425      430
His Leu Arg Leu Ser Leu Asn Glu Gly Gln Cys Arg Val Gln His
      435      440      445

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Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His  
 450 455 460  
 Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser  
 465 470 475 480  
 Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala  
 485 490 495  
 Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu  
 500 505 510  
 Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala  
 515 520 525  
 Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr  
 530 535 540  
 Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro  
 545 550 555 560  
 Pro Gln Pro Gly Glu Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly  
 565 570 575  
 Gln Gln Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala  
 580 585 590  
 Gly Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val  
 595 600 605  
 Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala  
 610 615 620  
 Gln Gly Arg Leu Gly Pro Gly Gly Asp Ala Gly Val Pro Pro Met Val  
 625 630 635 640  
 Gln Leu Gln Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly Gly His  
 645 650 655  
 Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val  
 660 665 667

&lt;210&gt; 1125

&lt;211&gt; 387

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1125

Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile  
 1 5 10 15  
 Arg Arg Leu Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu  
 20 25 30  
 Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu  
 35 40 45  
 Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn  
 50 55 60  
 Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe  
 65 70 75 80  
 Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys  
 85 90 95  
 Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu  
 100 105 110  
 Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu  
 115 120 125  
 Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu  
 130 135 140  
 Glu Lys Arg Glu Glu Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu  
 145 150 155 160  
 Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys  
 165 170 175  
 Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile  
 180 185 190



Lys Leu Leu Lys Lys Pro Glu Lys Gly Glu Glu Pro Thr Thr Glu Lys  
 195 200 205  
 Pro Lys Glu Arg Gly Glu Glu Ile Asp Thr Gly Gly Gly Lys Gln Glu  
 210 215 220  
 Ser Cys Ala Pro Gly Ala Val Val Lys Ala Arg Pro Met Glu Gly Ser  
 225 230 235 240  
 Leu Glu Glu Pro Gln Glu Thr Ser His Ser Gly Ser Asp Lys Glu His  
 245 250 255  
 Arg Asp Val Glu Arg Ser Gln Glu Gln Glu Ser Glu Ala Gln Arg Tyr  
 260 265 270  
 His Val Asp Asp Gly Arg Arg His Arg Ala His His Glu Pro Glu Arg  
 275 280 285  
 Leu Ser Arg Arg Ser Glu Asp Glu Gln Arg Trp Gly Lys Gly Pro Gly  
 290 295 300  
 Gln Asp Arg Gly Lys Lys Gly Ser Gln Asp Ser Gly Ala Pro Gly Glu  
 305 310 315 320  
 Ala Met Glu Arg Leu Gly Arg Ala Gln Arg Cys Asp Asp Ser Pro Ala  
 325 330 335  
 Pro Arg Lys Glu Arg Leu Ala Asn Lys Asp Arg Pro Ala Leu Gln Leu  
 340 345 350  
 Tyr Asp Pro Gly Ala Arg Phe Arg Ala Arg Glu Cys Gly Gly Asn Arg  
 355 360 365  
 Arg Ile Cys Lys Ala Glu Gly Ser Gly Thr Gly Pro Glu Lys Arg Glu  
 370 375 380  
 Glu Ala Glu  
 385 387

<210> 1126  
 <211> 208  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1126  
 Gly Val Trp Gly Val Cys Val Ser Gly Leu Leu Gln Val Gly Ser Gln  
 1 5 10 15  
 Arg Ala Gln Ala Trp Arg Ala Trp Ser Pro Met Glu Thr Pro Leu Thr  
 20 25 30  
 Gly Thr Phe Leu Trp Pro His Ile Pro Gln Gly Leu Phe Phe Asp Asp  
 35 40 45  
 Ser Tyr Gly Phe Tyr Pro Gly Gln Val Leu Ile Gly Pro Ala Lys Ile  
 50 55 60  
 Phe Ser Ser Val Gln Trp Leu Ser Gly Val Lys Pro Val Leu Ser Thr  
 65 70 75 80  
 Lys Ser Lys Phe Arg Val Val Val Glu Glu Val Gln Val Val Glu Leu  
 85 90 95  
 Lys Val Thr Trp Ile Thr Lys Ser Phe Cys Pro Gly Gly Thr Asp Ser  
 100 105 110  
 Val Ser Pro Pro Pro Ser Val Ile Thr Gln Glu Asn Leu Gly Arg Val  
 115 120 125  
 Lys Arg Leu Gly Cys Phe Asp His Ala Gln Arg His Ala Trp Gly Ala  
 130 135 140  
 Leu Ser Val Cys Leu Pro Ser Gln Gly Arg Ala Ser Gln Asp Cys Leu  
 145 150 155 160  
 Gly Met Ser Arg Lys Lys Leu Arg Pro Gly Gly Gly Leu Tyr Gly Gln  
 165 170 175  
 Glu Gly Glu Ala Pro Val Glu Glu Ala Gly Cys Ala Asp His Val Met  
 180 185 190  
 Leu Pro Arg His Pro Val Phe Pro Gly Pro Phe His Gly Arg Pro Arg  
 195 200 205 208

<210> 1127  
 <211> 670  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1127  
 Phe Arg Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser  
 1 5 10 15  
 Gly Glu Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys  
 20 25 30  
 Lys Asp Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro  
 35 40 45  
 Asp Glu Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln  
 50 55 60  
 Cys Asp Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys  
 65 70 75 80  
 Val Asn Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser  
 85 90 95  
 Gly Glu Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys  
 100 105 110  
 Arg Asp Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys  
 115 120 125  
 Leu Asp Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile  
 130 135 140  
 Gly Tyr Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg  
 145 150 155 160  
 Arg Cys Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln  
 165 170 175  
 Leu Cys Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly  
 180 185 190  
 Phe Gln Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile  
 195 200 205  
 Ala Tyr Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu  
 210 215 220  
 Asp Arg Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val  
 225 230 235 240  
 Ala Leu Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu  
 245 250 255  
 Ser Gln Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val  
 260 265 270  
 Ser Ser Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly  
 275 280 285  
 Leu Ala Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val  
 290 295 300  
 Leu Gly Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr  
 305 310 315 320  
 Leu Phe Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro  
 325 330 335  
 Val His Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile  
 340 345 350  
 Lys Lys Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu  
 355 360 365  
 Asn Ile Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg  
 370 375 380  
 Leu Tyr Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val  
 385 390 395 400

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<210> 1128
<211> 383
<212>Amino acid
<213> Homo sapiens
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659

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu  
 145 150 155 160  
 Gly Gln Ser Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala  
 165 170 175  
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys  
 180 185 190  
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala  
 195 200 205  
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro  
 210 215 220  
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn  
 225 230 235 240  
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala  
 245 250 255  
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala  
 260 265 270  
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu  
 275 280 285  
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser  
 290 295 300  
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln  
 305 310 315 320  
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr  
 325 330 335  
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu  
 340 345 350  
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu  
 355 360 365  
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp  
 370 375 380 383

&lt;210&gt; 1129

&lt;211&gt; 174

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg  
 1 5 10 15  
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr  
 20 25 30  
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro  
 35 40 45  
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp  
 50 55 60  
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro  
 65 70 75 80  
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly  
 85 90 95  
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys  
 100 105 110  
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met  
 115 120 125  
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu  
 130 135 140  
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro  
 145 150 155 160  
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Glu Ala  
 165 170 174

<210> 1130  
 <211> 231  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1130  
 Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe  
 1 5 10 15  
 Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Thr Phe Leu Gly Gly  
 20 25 30  
 Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe  
 35 40 45  
 Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser  
 50 55 60  
 Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly  
 65 70 75 80  
 Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn  
 85 90 95  
 Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser  
 100 105 110  
 Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala  
 115 120 125  
 Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr  
 130 135 140  
 Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro  
 145 150 155 160  
 Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val  
 165 170 175  
 Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg  
 180 185 190  
 Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His  
 195 200 205  
 Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn  
 210 215 220  
 Gly Asn Ser Thr Met Cys Pro  
 225 230 231

<210> 1131  
 <211> 234  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1131  
 Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg  
 1 5 10 15  
 Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu  
 20 25 30  
 Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly  
 35 40 45  
 Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala  
 50 55 60  
 Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys  
 65 70 75 80

Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile  
                             85                            90                            95  
 Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe  
                             100                            105                            110  
 Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg  
                             115                            120                            125  
 Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr  
                             130                            135                            140  
 Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu  
                             145                            150                            155                            160  
 Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln  
                             165                            170                            175  
 Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu  
                             180                            185                            190  
 Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala  
                             195                            200                            205  
 Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val  
                             210                            215                            220  
 Ala Ser Thr Thr Ser Ser Ser Glu Ser Leu  
                             225                            230                            234

&lt;210&gt; 1132

&lt;211&gt; 270

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1132

Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser  
   1                            5                            10                            15  
 Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser  
                             20                            25                            30  
 Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val  
                             35                            40                            45  
 Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile  
                             50                            55                            60  
 Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr  
                             65                            70                            75                            80  
 Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln  
                             85                            90                            95  
 Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met  
                             100                            105                            110  
 Asp Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg  
                             115                            120                            125  
 Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys  
                             130                            135                            140  
 Val Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu  
                             145                            150                            155                            160  
 Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser  
                             165                            170                            175  
 Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile  
                             180                            185                            190  
 Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu  
                             195                            200                            205  
 Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn  
                             210                            215                            220  
 Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala  
                             225                            230                            235                            240  
 Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg  
                             245                            250                            255

Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp  
 260 265 270

<210> 1133

<211> 204

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(204)

<223> X = any amino acid or stop code

<400> 1133

Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys  
 1 5 10 15  
 Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Arg Thr  
 20 25 30  
 Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser  
 35 40 45  
 Ala Pro Val Val Phe Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met  
 50 55 60  
 Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr  
 65 70 75 80  
 Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr  
 85 90 95  
 Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly  
 100 105 110  
 Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu  
 115 120 125  
 Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro  
 130 135 140  
 Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser  
 145 150 155 160  
 Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr  
 165 170 175  
 Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu  
 180 185 190  
 Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly  
 195 200 204

<210> 1134

<211> 531

<212>Amino acid

<213> Homo sapiens

<400> 1134

Arg Ala Cys Val Phe Arg Pro Glu Asp Met Met Gln Gly Glu Ala His  
 1 5 10 15  
 Pro Ser Ala Ser Leu Ile Asp Arg Thr Ile Lys Met Arg Lys Glu Thr  
 20 25 30  
 Glu Ala Arg Lys Val Val Leu Ala Trp Gly Leu Leu Asn Val Ser Met  
 35 40 45  
 Ala Gly Met Ile Tyr Thr Glu Met Thr Gly Lys Leu Ile Ser Ser Tyr

50	55	60
Tyr Asn Val Thr Tyr Trp	Pro Leu Trp Tyr Ile Glu Leu Ala Leu Ala	
65	70	75
Ser Leu Phe Ser Leu Asn Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys		80
	85	90
Tyr Thr Val Ala Pro Thr Ser Leu Val Val Ser Pro Gly Gln Gln Thr		95
	100	105
Leu Leu Gly Leu Lys Thr Ala Val Val Gln Thr Thr Pro Pro His Asp		110
	115	120
Leu Ala Ala Thr Gln Ile Pro Pro Ala Pro Pro Ser Pro Ser Ile Gln		125
	130	135
Gly Gln Ser Val Leu Ser Tyr Ser Pro Ser Arg Ser Pro Ser Thr Ser		140
145	150	155
Pro Lys Phe Thr Thr Ser Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln		160
	165	170
Gly Leu Ser Ser Gly Gly Ser Gly Ser Tyr Ser Pro Gly Val Thr Tyr		175
	180	185
Ser Pro Val Ser Gly Tyr Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro		190
	195	200
Pro Ser Pro Tyr Pro Thr Thr Val Gly Pro Val Glu Ser Ser Gly Leu		205
	210	215
Arg Ser Arg Tyr Arg Ser Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp		220
225	230	235
Lys Glu Asp Tyr Met Thr Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg		240
	245	250
Ser Glu Glu Glu Lys Gln His Arg Val Lys Leu Gly Ser Pro Asp Ser		255
	260	265
Thr Ser Pro Ser Ser Ser Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met		270
	275	280
Gly Asp Tyr Ala Gln Thr Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys		285
	290	295
Arg Ser Gln Ala Pro Cys Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser		300
305	310	315
Lys Gln Ala Ala Glu Glu Val Trp Ala Arg Val Ala Met Asn Arg Gln		320
	325	330
Leu Leu Asp His Met Asp Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile		335
	340	345
Asn Glu Thr Ile Leu Val Pro Leu Val Gln Glu Ile Glu Ser Val Ser		350
	355	360
Thr Gln Met Arg Arg Met Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala		365
	370	375
Ser Ile Thr Ser Leu Lys Gln Ala Ala Leu Val Lys Ala Pro Leu Ile		380
385	390	395
Pro Thr Leu Asn Thr Ile Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln		400
	405	410
Glu Tyr Leu Phe Glu Arg Ile Lys Glu Leu Ser Gln Gly Gly Cys Met		415
	420	425
Ser Ser Phe Arg Trp Asn Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp		430
	435	440
Asp Thr Asp Leu Pro Thr Asp Ser Ala Ile Ile Met His Val Phe Cys		445
	450	455
Thr Tyr Leu Asp Ser Arg Leu Pro Pro His Pro Lys Tyr Pro Asp Gly		460
465	470	475
Lys Thr Phe Thr Ser Gln His Phe Val Gln Thr Pro Asn Lys Pro Asp		480
	485	490
Val Thr Asn Glu Asn Val Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro		495
	500	505
Pro His Tyr Glu Leu Ile Tyr Gln Arg His Val Tyr Ile Pro Ala Lys		510
	515	520
Gly Gln Lys		525
530 531		

&lt;210&gt; 1135



<211> 508  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1135  
 Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val  
 1 5 10 15  
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser  
 20 25 30  
 Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu  
 35 40 45  
 Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser  
 50 55 60  
 Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr  
 65 70 75 80  
 Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg  
 85 90 95  
 Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val  
 100 105 110  
 Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg  
 115 120 125  
 Lys Arg Glu Ala Glu Glu Arg Arg Phe Pro Leu Glu Gln Arg Leu  
 130 135 140  
 Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala  
 145 150 155 160  
 Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu  
 165 170 175  
 Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala  
 180 185 190  
 Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile  
 195 200 205  
 Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe  
 210 215 220  
 Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu  
 225 230 235 240  
 Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu  
 245 250 255  
 Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe  
 260 265 270  
 Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys  
 275 280 285  
 Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala  
 290 295 300  
 Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn  
 305 310 315 320  
 Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr  
 325 330 335  
 Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala  
 340 345 350  
 His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr  
 355 360 365  
 Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu  
 370 375 380  
 Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu  
 385 390 395 400  
 Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val  
 405 410 415  
 His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly  
 420 425 430  
 Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

```

      435              440              445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser
      450              455              460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg
465              470              475              480
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg
      485              490              495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile
      500              505              508

```

<210> 1136  
 <211> 81  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1136
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly
 1              5              10              15
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala
      20              25              30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr
      35              40              45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly
      50              55              60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Ser Ala Asn Gln
65              70              75              80
Gly
81

```

<210> 1137  
 <211> 260  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1137
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr
 1              5              10              15
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
      20              25              30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
      35              40              45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
      50              55              60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
65              70              75              80
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
      85              90              95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
      100              105              110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
      115              120              125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile
      130              135              140
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys

```

```

145          150          155          160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
          165          170          175
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
          180          185          190
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
          195          200          205
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
          210          215          220
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
225          230          235          240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
          245          250          255
Lys Leu Tyr Asn
          260

```

&lt;210&gt; 1138

&lt;211&gt; 393

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1138

```

Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met
 1          5          10          15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala
          20          25          30
Ala Ala Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Glu
          35          40          45
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp
          50          55          60
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Gln Leu Gln Glu Glu Glu
          65          70          75          80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln
          85          90          95
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg
          100          105          110
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu
          115          120          125
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu
          130          135          140
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val
145          150          155          160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val
          165          170          175
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn
          180          185          190
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His
          195          200          205
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala
          210          215          220
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu
225          230          235          240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser
          245          250          255
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile
          260          265          270
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala
          275          280          285
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Ser Val Leu Pro Pro Ser

```

290 295 300  
 Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys  
 305 310 315 320  
 Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro  
 325 330 335  
 Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu  
 340 345 350  
 Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg  
 355 360 365  
 Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro  
 370 375 380  
 Ala Arg Lys Val Lys Met Arg Arg His  
 385 390 393

<210> 1139  
 <211> 545  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1139  
 Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr  
 1 5 10 15  
 Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln  
 20 25 30  
 Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln  
 35 40 45  
 Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp  
 50 55 60  
 Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn  
 65 70 75 80  
 His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val  
 85 90 95  
 Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala  
 100 105 110  
 Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser  
 115 120 125  
 Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp  
 130 135 140  
 Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His  
 145 150 155 160  
 Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu  
 165 170 175  
 Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser  
 180 185 190  
 Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu  
 195 200 205  
 Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys  
 210 215 220  
 Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His  
 225 230 235 240  
 Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg  
 245 250 255  
 Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala  
 260 265 270  
 Glu His Thr Pro Met Ala Pro Gly Ser Thr His Arg Arg Asp Arg  
 275 280 285  
 Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly  
 290 295 300  
 Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser

```

305          310          315          320
Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
          325          330          335
Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
          340          345          350
Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
          355          360          365
Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
          370          375          380
Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
385          390          395          400
Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
          405          410          415
Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
          420          425          430
Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
          435          440          445
Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
          450          455          460
Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
465          470          475          480
Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
          485          490          495
Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val
          500          505          510
Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
          515          520          525
Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
          530          535          540
Gln
545

```

&lt;210&gt; 1140

&lt;211&gt; 621

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1140

```

Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
1          5          10          15
Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
          20          25          30
Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
          35          40          45
Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
          50          55          60
Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
          65          70          75          80
Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
          85          90          95
Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
          100          105          110
Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
          115          120          125
Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
          130          135          140
Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
145          150          155          160
Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

```

```
<210> 1141
<211> 154
<212> Amino acid
<213> Homo sapiens
```

<400> 1141  
 Ala Gln Val Tyr Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg  
 1 5 10 15  
 Pro Ser Gly Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val  
 20 25 30  
 His Ser Asn Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile  
 35 40 45  
 Gln Ser Ala Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His  
 50 55 60  
 Met Val Pro Ile Val His His Val Lys Glu His His Phe Gly Ser Ser  
 65 70 75 80  
 Gly Met Thr Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr  
 85 90 95  
 Glu Gln Glu Ala Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg  
 100 105 110  
 Ile Asp Ile Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp  
 115 120 125  
 Glu Met Lys Ser Pro Arg Glu Pro Gly Tyr Lys Asp Gly His Asn Ser  
 130 135 140  
 Lys Asn Glu Leu Gln Arg Val Asn Phe Tyr  
 145 150 154

<210> 1142  
 <211> 121  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1142  
 Thr Tyr Thr Phe Cys Phe Ser Leu Met Ile Ile Leu Leu Thr Ile Ile  
 1 5 10 15  
 Gln Gly Leu Ile Leu Glu Ala Phe Gly Glu Leu Arg Asp Gln Leu Asp  
 20 25 30  
 Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly  
 35 40 45  
 Asn Asp Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu  
 50 55 60  
 Gln Glu His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile  
 65 70 75 80  
 Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys  
 85 90 95  
 Met Tyr Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe  
 100 105 110  
 Arg Lys Gln Tyr Glu Asp Gln Leu Asn  
 115 120 121

<210> 1143  
 <211> 851  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1143

Phe Arg Arg Lys Gly Gly Gly Gly Pro Lys Asp Phe Gly Ala Gly Leu  
 1 5 10 15  
 Lys Tyr Asn Ser Arg His Glu Lys Val Asn Gly Leu Glu Glu Gly Val  
 20 25 30  
 Glu Phe Leu Pro Val Asn Asn Val Lys Lys Val Glu Lys His Gly Pro  
 35 40 45  
 Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly Leu Leu Leu Val  
 50 55 60  
 Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln Tyr Arg Asp Val  
 65 70 75 80  
 Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile Thr Asn Glu Asn  
 85 90 95  
 Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu Phe Val Ser Leu  
 100 105 110  
 Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr Ser Gly Val Pro  
 115 120 125  
 Phe Leu Gly Pro Tyr His Lys Glu Ser Ala Val Thr Ala Phe Ser Glu  
 130 135 140  
 Gly Ser Val Ile Ala Tyr Trp Ser Glu Phe Ser Ile Pro Gln His  
 145 150 155 160  
 Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu Arg Val Val Met  
 165 170 175  
 Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val Val Thr Ser Val  
 180 185 190  
 Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg Thr Gln Asp Asn  
 195 200 205  
 Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu Leu Met Arg Phe  
 210 215 220  
 Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala His Ala Arg Cys  
 225 230 235 240  
 Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu Ser Leu Thr Phe  
 245 250 255  
 Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly Arg His Leu Val  
 260 265 270  
 Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His Ala Leu Val Gln  
 275 280 285  
 Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr Phe His Ser Ser  
 290 295 300  
 Gln Asn Val Leu Leu Ile Thr Leu Ile Thr Asn Thr Glu Arg Arg His  
 305 310 315 320  
 Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Arg Met Ser Ser Cys  
 325 330 335  
 Gly Gly Arg Leu Arg Lys Ala Gln Gly Thr Phe Asn Ser Pro Tyr Tyr  
 340 345 350  
 Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp Asn Ile Glu Val  
 355 360 365  
 Pro Asn Asn Gln His Val Lys Val Arg Phe Lys Phe Phe Tyr Leu Leu  
 370 375 380  
 Glu Pro Gly Val Pro Ala Gly Thr Cys Pro Lys Asp Tyr Val Glu Ile  
 385 390 395 400  
 Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe Val Val Thr Ser  
 405 410 415  
 Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp Gln Ser Tyr Thr  
 420 425 430  
 Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp Ser Ser Asp Pro  
 435 440 445  
 Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys Ile Arg Lys Glu  
 450 455 460  
 Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His Ser Asp Glu Leu  
 465 470 475 480  
 Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr Cys Lys Asn Lys Phe  
 485 490 495  
 Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Leu Asn Asp Cys Gly Asp



```

      500      505      510
Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys
      515      520      525
Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp
      530      535      540
Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val
545      550      555      560
Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu
      565      570      575
Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly
      580      585      590
Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln
      595      600      605
Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp
610      615      620
Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser
625      630      635      640
Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
      645      650      655
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu
      660      665      670
Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg
      675      680      685
Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe
690      695      700
Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser
705      710      715      720
Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro
      725      730      735
Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly
      740      745      750
Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn
      755      760      765
Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met
770      775      780
Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp
785      790      795      800
Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln
      805      810      815
Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro
      820      825      830
Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn
      835      840      845
Thr Gly Val
850 851

```

&lt;210&gt; 1144

&lt;211&gt; 346

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(346)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1144

```

Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr
  1           5           10           15

```

```

Asp Cys Ser Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser
      20      25      30
Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu
      35      40      45
Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro
      50      55      60
Glu Val Phe Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro
      65      70      75      80
Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr
      85      90      95
Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn
      100      105      110
Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His
      115      120      125
Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys
      130      135      140
Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser
      145      150      155      160
Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile
      165      170      175
Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser
      180      185      190
Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser
      195      200      205
Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser
      210      215      220
Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala
      225      230      235      240
Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu
      245      250      255
Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe
      260      265      270
Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp
      275      280      285
Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr Ala Leu Glu
      290      295      300
Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val
      305      310      315      320
Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg
      325      330      335
Thr Val Glu Ser Thr Ser His Arg Leu Tyr
      340      345      346

```

&lt;210&gt; 1145

&lt;211&gt; 339

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (339)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1145

```

Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val
  1      5      10      15
Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly
      20      25      30
Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

```

```

      35      40      45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro
  50      55      60
Gly Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln
  65      70      75      80
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg
      85      90      95
Trp Arg Leu Xaa Ala Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr
      100      105      110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu
      115      120      125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His
      130      135      140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala
      145      150      155      160
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu
      165      170      175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg
      180      185      190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala
      195      200      205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His
      210      215      220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu
      225      230      235      240
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe
      245      250      255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile
      260      265      270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys
      275      280      285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln
      290      295      300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu Glu
      305      310      315      320
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser
      325      330      335
Lys Pro Gln
      339

```

&lt;210&gt; 1146

&lt;211&gt; 425

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(425)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1146

```

Ala Ala Ala Leu Val Ala Glu Tyr Leu Ala Leu Leu Glu Asp His Arg
  1      5      10      15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val
      20      25      30
Leu Glu Glu Ser Ala Ile Ser Asp Ile Leu Ser Pro Asp Glu Glu
      35      40      45
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu
      50      55      60

```

```

Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala
 65          70          75          80
Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg
          85          90          95
Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe
          100          105          110
Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr
          115          120          125
Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu
          130          135          140
Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile
145          150          155          160
Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val
          165          170          175
Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp
          180          185          190
Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp
          195          200          205
Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly
210          215          220
Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala
225          230          235          240
His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr
          245          250          255
Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg
          260          265          270
Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln
          275          280          285
Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp
          290          295          300
Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val
305          310          315          320
Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro
          325          330          335
Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe
          340          345          350
Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala
          355          360          365
Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn
          370          375          380
Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu
385          390          395          400
Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn
          405          410          415
Arg Ala Ser Phe Arg Lys Ala Asp Leu
          420          425

```

&lt;210&gt; 1147

&lt;211&gt; 198

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (198)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1147

Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

```

      1           5           10           15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala
      20           25           30
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg
      35           40           45
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ser Ala Asp His
      50           55           60
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu
      65           70           75           80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe
      85           90           95
Gly Gly Ala Ser Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu
      100          105          110
His Gly Glu Gly Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro
      115          120          125
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala
      130          135          140
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys
      145          150          155          160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile
      165          170          175
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg
      180          185          190
Gly Gln Gly Arg Asn Leu
      195          198

```

&lt;210&gt; 1148

&lt;211&gt; 317

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1148

```

Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala
      1           5           10           15
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg
      20           25           30
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr
      35           40           45
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu
      50           55           60
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu
      65           70           75           80
Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser Val Asp Ser Trp
      85           90           95
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly
      100          105          110
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg
      115          120          125
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys
      130          135          140
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu
      145          150          155          160
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu
      165          170          175
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro
      180          185          190
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly
      195          200          205
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu

```

```

      210              215              220
Gln Ala Ser Val Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp
225              230              235              240
Ala Tyr Gln Gly Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro
      245              250              255
Glu Gly Gly Val Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met
      260              265              270
Tyr Gln Ser Asp Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr
      275              280              285
Gly Cys Gly Gly Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala
      290              295              300
Tyr Leu Asn Trp Ile Tyr Asn Val Trp Lys Ala Glu Leu
305              310              315              317

```

&lt;210&gt; 1149

&lt;211&gt; 320

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

```

      <400> 1149
Thr Ile Ser Thr Val Arg Trp Asn Ser Arg Ile Gly Met Val Leu Gly
 1              5              10              15
Val Ala Ile Gln Lys Arg Ala Val Pro Gly Leu Tyr Ala Phe Glu Glu
      20              25              30
Ala Tyr Ala Arg Ala Asp Lys Glu Ala Pro Arg Pro Cys His Lys Gly
      35              40              45
Ser Trp Cys Ser Ser Asn Gln Leu Cys Arg Glu Cys Gln Ala Phe Met
      50              55              60
Ala His Thr Met Pro Lys Leu Lys Ala Phe Ser Met Ser Ser Ala Tyr
      65              70              75              80
Asn Ala Tyr Arg Ala Val Tyr Ala Val Ala His Gly Leu His Gln Leu
      85              90              95
Leu Gly Cys Ala Ser Gly Ala Cys Ser Arg Gly Arg Val Tyr Pro Trp
      100              105              110
Gln Leu Leu Glu Gln Ile His Lys Val His Phe Leu Leu His Lys Asp
      115              120              125
Thr Val Ala Phe Asn Asp Asn Arg Asp Pro Leu Ser Ser Tyr Asn Ile
      130              135              140
Ile Ala Trp Asp Trp Asn Gly Pro Lys Trp Thr Phe Thr Val Leu Gly
      145              150              155              160
Ser Ser Thr Trp Ser Pro Val Gln Leu Asn Ile Asn Glu Thr Lys Ile
      165              170              175
Gln Trp His Gly Lys Asp Asn Gln Val Pro Lys Ser Val Cys Ser Ser
      180              185              190
Asp Cys Leu Glu Gly His Gln Arg Val Val Thr Gly Phe His His Cys
      195              200              205
Cys Phe Glu Cys Val Pro Cys Gly Ala Gly Thr Phe Leu Asn Lys Ser
      210              215              220
Ser Tyr Leu Gly Lys Asp Leu Pro Glu Asn Tyr Asn Glu Ala Lys Cys
      225              230              235              240
Val Thr Phe Ser Leu Leu Phe Asn Phe Val Ser Trp Ile Ala Phe Phe
      245              250              255
Thr Thr Ala Ser Val Tyr Asp Gly Lys Tyr Leu Pro Ala Ala Asn Met
      260              265              270
Met Ala Gly Leu Ser Ser Leu Ser Ser Gly Phe Gly Gly Tyr Phe Leu
      275              280              285
Pro Lys Cys Tyr Val Ile Leu Cys Arg Pro Asp Leu Asn Ser Thr Glu
      290              295              300
His Phe Gln Ala Ser Ile Gln Asp Tyr Thr Arg Arg Cys Gly Ser Thr

```

305

310

315

320

<210> 1150  
 <211> 458  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1150

Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser  
 1 5 10 15  
 Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser  
 20 25 30  
 Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu  
 35 40 45  
 His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala  
 50 55 60  
 Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile  
 65 70 75 80  
 Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln  
 85 90 95  
 Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro  
 100 105 110  
 Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr  
 115 120 125  
 Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe  
 130 135 140  
 Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys  
 145 150 155 160  
 Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu  
 165 170 175  
 Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn  
 180 185 190  
 Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser  
 195 200 205  
 Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe  
 210 215 220  
 Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val  
 225 230 235 240  
 Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val  
 245 250 255  
 Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn  
 260 265 270  
 Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala  
 275 280 285  
 Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln  
 290 295 300  
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu  
 305 310 315 320  
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu  
 325 330 335  
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His  
 340 345 350  
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu  
 355 360 365  
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser  
 370 375 380  
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

```
<210> 1151
<211> 608
<212> Amino acid
<213> Homo sapiens
```

680



```

      340      345      350
Gln Arg Gln Phe Ser Asp Lys Arg Arg Leu Glu Ala Arg Leu Gln Gly
      355      360      365
Met Val Thr Glu Thr Thr Met Lys Trp Glu Lys Glu Cys Glu Arg Arg
      370      375      380
Val Ala Ala Lys Gln Leu Glu Met Gln Asn Lys Leu Trp Val Lys Asp
      385      390      395      400
Glu Lys Leu Lys Gln Leu Lys Ala Ile Val Thr Glu Pro Lys Thr Glu
      405      410      415
Lys Pro Glu Arg Pro Ser Arg Glu Arg Asp Arg Glu Lys Val Thr Gln
      420      425      430
Arg Ser Val Ser Pro Ser Pro Val Pro Leu Leu Phe Gln Pro Asp Gln
      435      440      445
Asn Ala Pro Pro Ile Arg Leu Arg His Arg Arg Ser Arg Ser Ala Gly
      450      455      460
Asp Arg Trp Val Asp His Lys Pro Ala Ser Asn Met Gln Thr Glu Thr
      465      470      475      480
Val Met Gln Pro His Val Pro His Ala Ile Thr Val Ser Val Ala Asn
      485      490      495
Glu Lys Ala Leu Ala Lys Cys Glu Lys Tyr Met Leu Thr His Gln Glu
      500      505      510
Leu Ala Ser Asp Gly Glu Ile Glu Thr Lys Leu Ile Lys Gly Asp Ile
      515      520      525
Tyr Lys Thr Arg Gly Gly Gly Gln Ser Val Gln Phe Thr Asp Ile Glu
      530      535      540
Thr Leu Lys Gln Glu Ser Pro Asn Gly Ser Arg Lys Arg Arg Ser Ser
      545      550      555      560
Thr Val Ala Pro Ala Gln Pro Asp Gly Ala Glu Ser Glu Trp Thr Asp
      565      570      575
Val Glu Thr Arg Cys Ser Val Ala Val Glu Met Arg Ala Gly Ser Gln
      580      585      590
Leu Gly Pro Gly Tyr Gln His His Ala Gln Pro Lys Arg Lys Lys Pro
      595      600      605      608

```

<210> 1152  
 <211> 111  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1152
Pro Phe Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe Gly
  1      5      10      15
Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly Phe
      20      25      30
Ala Asp Phe Ser Gln Met Ser Lys Gly Lys Ser Thr Pro Val Ser Gln
      35      40      45
Leu Gly Ser Ala Asp Phe Pro Glu Ala Pro Asp Pro Phe Gln Pro Leu
      50      55      60
Gly Ala Asp Ser Gly Asp Pro Phe Gln Ser Lys Lys Gly Phe Gly Asp
      65      70      75      80
Pro Phe Ser Gly Lys Asp Pro Phe Val Pro Ser Ser Ala Ala Lys Pro
      85      90      95
Ser Lys Ala Ser Ala Ser Gly Phe Ala Asp Phe Thr Ser Val Ser
      100      105      110 111

```

<210> 1153

<211> 444  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1153

```

Met Ser Leu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val
 1          5          10          15
Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser
      20          25          30
Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg
      35          40          45
Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp
 50          55          60
Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe
 65          70          75          80
Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg
      85          90          95
Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro
      100          105          110
Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala
      115          120          125
His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys
 130          135          140
Trp Ser Asp Ile Met Phe Glu His Phe Phe Leu His Lys Glu Gly Ile
 145          150          155          160
Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser
      165          170          175
Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr
      180          185          190
Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala
      195          200          205
Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro
 210          215          220
Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val
 225          230          235          240
Thr Leu Ser Cys Ser Ser Arg Ser Ser Tyr Asp Met Tyr His Leu Ser
      245          250          255
Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val
      260          265          270
Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly
      275          280          285
Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp
      290          295          300
Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser
 305          310          315          320
Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro
      325          330          335
Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe
      340          345          350
Ile Leu Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys
      355          360          365
Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn
 370          375          380
Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln
 385          390          395          400
Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln
      405          410          415
Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro
      420          425          430
Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

```

435

440

444

<210> 1154  
 <211> 522  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1154

```

Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val
 1           5           10           15
Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr
           20           25           30
Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala
           35           40           45
Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly
           50           55           60
Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile
           65           70           75           80
Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn
           85           90           95
Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser
           100          105          110
Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys
           115          120          125
Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu
           130          135          140
Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala
           145          150          155          160
Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe
           165          170          175
Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala
           180          185          190
Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro
           195          200          205
Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr
           210          215          220
Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu
           225          230          235          240
Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn
           245          250          255
Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val
           260          265          270
Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn
           275          280          285
Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu
           290          295          300
Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp
           305          310          315          320
Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Leu Glu Pro Asp Lys Glu
           325          330          335
Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser
           340          345          350
Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys
           355          360          365
Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn
           370          375          380
Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe
           385          390          395          400
Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Leu Tyr

```

```

          405          410          415
Leu Tyr Leu Thr Pro Cys Pro Cys Lys Cys Lys Thr Lys Arg Gln Lys
          420          425          430
Asn Met Leu His Gln Ser Asn Ala His Ser Ser Ile Leu Ser Pro Gly
          435          440          445
Pro Ala Ser Asp Ala Ser Ala Asp Glu Arg Lys Ala Gly Ala Gly Lys
          450          455          460
Arg Val Val Phe Leu Glu Pro Leu Lys Asp Thr Ala Ala Gly Gln Asn
          465          470          475          480
Gly Lys Val Arg Leu Phe Pro Ser Glu Ala Val Ile Ala Glu Gly Ile
          485          490          495
Leu Lys Ser Thr Arg Gly Lys Ser Asp Ser Asp Ser Val Asn Ser Val
          500          505          510
Phe Ser Asp Thr Pro Phe Val Ala Ser Thr
          515          520          522

```

```

<210> 1155
<211> 642
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1155
Ala Ser Asp Phe Ile Arg Ser Leu Asp His Cys Gly Tyr Leu Ser Leu
  1          5          10          15
Glu Gly Val Phe Ser His Lys Phe Asp Phe Glu Leu Gln Asp Val Ser
          20          25          30
Ser Val Asn Glu Asp Val Leu Leu Thr Thr Gly Leu Leu Cys Lys Tyr
          35          40          45
Thr Ala Gln Arg Phe Lys Pro Lys Tyr Lys Phe Phe His Lys Ser Phe
          50          55          60
Gln Glu Tyr Thr Ala Gly Arg Arg Leu Ser Ser Leu Leu Thr Ser His
          65          70          75          80
Glu Pro Glu Glu Val Thr Lys Gly Asn Gly Tyr Leu Gln Lys Met Val
          85          90          95
Ser Ile Ser Asp Ile Thr Ser Thr Tyr Ser Ser Leu Leu Arg Tyr Thr
          100          105          110
Cys Gly Ser Ser Val Glu Ala Thr Arg Ala Val Met Lys His Leu Ala
          115          120          125
Ala Val Tyr Gln His Gly Cys Leu Leu Gly Leu Ser Ile Ala Lys Arg
          130          135          140
Pro Leu Trp Arg Gln Glu Ser Leu Gln Ser Val Lys Asn Thr Thr Glu
          145          150          155          160
Gln Glu Ile Leu Lys Ala Ile Asn Ile Asn Ser Phe Val Glu Cys Gly
          165          170          175
Ile His Leu Tyr Gln Glu Ser Thr Ser Lys Ser Ala Leu Ser Gln Glu
          180          185          190
Phe Glu Ala Phe Phe Gln Gly Lys Ser Leu Tyr Ile Asn Ser Gly Asn
          195          200          205
Ile Pro Asp Tyr Leu Phe Asp Phe Phe Glu His Leu Pro Asn Cys Ala
          210          215          220
Ser Ala Leu Asp Phe Ile Lys Leu Gly Phe Tyr Gly Gly Ala Met Ala
          225          230          235          240
Ser Trp Glu Lys Ala Ala Glu Asp Thr Gly Gly Ile His Met Glu Glu
          245          250          255
Ala Pro Glu Thr Tyr Ile Pro Ser Arg Ala Val Ser Leu Phe Phe Asn
          260          265          270
Trp Lys Gln Glu Phe Arg Thr Leu Glu Val Thr Leu Arg Asp Phe Ser
          275          280          285
Lys Leu Asn Lys Gln Asp Ile Arg Tyr Leu Gly Lys Ile Phe Ser Ser

```

```

      290              295              300
Ala Thr Ser Leu Arg Leu Gln Ile Lys Arg Cys Ala Gly Val Ala Gly
305              310              315              320
Ser Leu Ser Leu Val Leu Ser Thr Cys Lys Asn Ile Tyr Ser Leu Met
      325              330              335
Val Glu Ala Ser Pro Leu Thr Ile Glu Asp Glu Arg His Ile Thr Ser
      340              345              350
Val Thr Asn Leu Lys Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg
      355              360              365
Leu Pro Gly Gly Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr
      370              375              380
Lys Leu Ile Met Asp Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys
385              390              395              400
Leu Ala Glu Gly Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu
      405              410              415
Thr His Leu Ser Asp Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser
      420              425              430
Leu Ser Ser Glu Pro Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys
      435              440              445
Cys Leu Ser Ala Asn Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn
      450              455              460
Leu Val Lys Leu Ser Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys
465              470              475              480
Asp Gly Asn Glu Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu
      485              490              495
Glu Gln Leu Thr Ala Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly
      500              505              510
Ser Leu Ser Ser Leu Leu Lys His Leu Glu Glu Val Pro Gln Leu Val
      515              520              525
Lys Leu Gly Leu Lys Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile
      530              535              540
Leu Gly Ala Phe Phe Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu
545              550              555              560
Asn Leu Ala Gly Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met
      565              570              575
Gly Val Phe Glu Asn Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr
      580              585              590
Lys Glu Phe Leu Pro Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val
      595              600              605
Leu Ser Lys Leu Thr Phe Leu Gln Glu Ala Arg Leu Val Gly Trp Gln
      610              615              620
Phe Asp Asp Asp Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val
625              630              635              640
Thr Ala
      642

```

&lt;210&gt; 1156

&lt;211&gt; 125

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(125)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1156

Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg

1

5

10

15

```

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg
      20              25              30
Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro
      35              40              45
Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
      50              55              60
Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val
      65              70              75              80
Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln
      85              90              95
Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln
      100             105             110
Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly
      115              120              125

```

&lt;210&gt; 1157

&lt;211&gt; 91

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(91)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1157

```

Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg
  1              5              10              15
Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe
      20              25              30
Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile
      35              40              45
Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg
      50              55              60
Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala
      65              70              75              80
Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu
      85              90  91

```

&lt;210&gt; 1158

&lt;211&gt; 254

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(254)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1158

```

Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe
  1              5              10              15
Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys
      20              25              30

```

Gly Ser Leu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu  
           35                  40                  45  
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met  
           50                  55                  60  
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly  
           65                  70                  75                  80  
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu  
                   85                  90                  95  
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val  
                   100                  105                  110  
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg  
                   115                  120                  125  
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp  
                   130                  135                  140  
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser  
                   145                  150                  155                  160  
 Leu Ala Ile Xaa His Pro Phe Glu Gly Ala Ser Val Arg Asn Lys Ala  
                   165                  170                  175  
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile  
                   180                  185                  190  
 Ser Gly Val Gln Lys Ser Lys Lys Asn Gly Pro Ile Asp Trp Glu Trp  
                   195                  200                  205  
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Ser Gly Val Leu Arg Val  
                   210                  215                  220  
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg  
                   225                  230                  235                  240  
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn  
                   245                  250                  254

&lt;210&gt; 1159

&lt;211&gt; 162

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1159

Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala  
           1                  5                  10                  15  
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr  
                   20                  25                  30  
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro  
                   35                  40                  45  
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln  
                   50                  55                  60  
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu  
                   65                  70                  75                  80  
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile  
                   85                  90                  95  
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu  
                   100                  105                  110  
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu  
                   115                  120                  125  
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met  
                   130                  135                  140  
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr  
                   145                  150                  155                  160  
 Val His  
           162

<210> 1160  
 <211> 295  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1160  
 His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu  
 1 5 10 15  
 Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp  
 20 25 30  
 Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu  
 35 40 45  
 Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys  
 50 55 60  
 Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg  
 65 70 75 80  
 Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser  
 85 90 95  
 Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg  
 100 105 110  
 Val Gly Asp Phe Asn Glu Ser Thr Tyr Tyr Met Glu Gly Asn Leu Gly  
 115 120 125  
 His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys  
 130 135 140  
 Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly  
 145 150 155 160  
 Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu  
 165 170 175  
 Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys  
 180 185 190  
 Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu  
 195 200 205  
 Phe Thr Ser Gly Asp Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe  
 210 215 220  
 Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly  
 225 230 235 240  
 Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn  
 245 250 255  
 Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg  
 260 265 270  
 Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr  
 275 280 285  
 Ser Pro Thr Ile Val Lys Glu  
 290 295

<210> 1161  
 <211> 1621  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(1621)  
 <223> X = any amino acid or stop code



<400> 1161

Met	Ala	Lys	Ser	Gly	Gly	Cys	Gly	Ala	Gly	Ala	Gly	Val	Gly	Gly	Gly
1				5					10					15	
Asn	Gly	Ala	Leu	Thr	Trp	Val	Asn	Asn	Ala	Ala	Lys	Lys	Glu	Glu	Ser
			20					25					30		
Glu	Thr	Ala	Asn	Lys	Asn	Asp	Ser	Ser	Lys	Lys	Leu	Ser	Val	Glu	Arg
		35				40					45				
Val	Tyr	Gln	Lys	Lys	Thr	Gln	Leu	Glu	His	Ile	Leu	Leu	Arg	Pro	Asp
	50				55					60					
Thr	Tyr	Ile	Gly	Ser	Val	Glu	Pro	Leu	Thr	Gln	Phe	Met	Trp	Val	Tyr
	65				70					75				80	
Asp	Glu	Asp	Val	Gly	Met	Asn	Cys	Arg	Glu	Val	Thr	Phe	Val	Pro	Gly
				85					90					95	
Leu	Tyr	Lys	Ile	Phe	Asp	Glu	Ile	Leu	Val	Asn	Ala	Ala	Asp	Asn	Lys
			100					105					110		
Gln	Arg	Asp	Lys	Asn	Met	Thr	Cys	Ile	Lys	Val	Ser	Ile	Asp	Pro	Glu
	115					120						125			
Ser	Asn	Ile	Ile	Ser	Ile	Trp	Asn	Asn	Gly	Lys	Gly	Ile	Pro	Val	Val
	130					135					140				
Glu	His	Lys	Val	Glu	Lys	Val	Tyr	Val	Pro	Ala	Leu	Ile	Phe	Gly	Gln
145					150					155					160
Leu	Leu	Thr	Ser	Ser	Asn	Tyr	Asp	Asp	Asp	Glu	Lys	Lys	Val	Thr	Gly
				165				170						175	
Gly	Arg	Asn	Gly	Tyr	Gly	Ala	Lys	Leu	Cys	Asn	Ile	Phe	Ser	Thr	Lys
		180				185							190		
Phe	Thr	Val	Glu	Thr	Ala	Cys	Lys	Glu	Tyr	Lys	His	Ser	Phe	Lys	Gln
	195					200						205			
Thr	Trp	Met	Asn	Asn	Met	Met	Lys	Thr	Ser	Glu	Ala	Lys	Ile	Lys	His
	210					215					220				
Phe	Asp	Gly	Glu	Asp	Tyr	Thr	Cys	Ile	Thr	Phe	Gln	Pro	Asp	Leu	Ser
225				230						235					240
Lys	Phe	Lys	Met	Glu	Lys	Leu	Asp	Lys	Asp	Ile	Val	Ala	Leu	Met	Thr
			245					250						255	
Arg	Arg	Ala	Tyr	Asp	Leu	Ala	Gly	Ser	Cys	Arg	Gly	Val	Lys	Val	Met
		260					265						270		
Phe	Asn	Gly	Lys	Lys	Leu	Pro	Val	Asn	Gly	Phe	Arg	Ser	Tyr	Val	Asp
	275					280						285			
Leu	Tyr	Val	Lys	Asp	Lys	Leu	Asp	Glu	Thr	Gly	Val	Ala	Leu	Lys	Val
	290					295					300				
Ile	His	Glu	Leu	Ala	Asn	Glu	Arg	Trp	Asp	Val	Cys	Leu	Thr	Leu	Ser
305				310						315					320
Glu	Lys	Gly	Phe	Gln	Gln	Ile	Ser	Phe	Val	Asn	Ser	Ile	Ala	Thr	Thr
			325						330					335	
Lys	Gly	Gly	Arg	His	Val	Asp	Tyr	Val	Val	Asp	Gln	Val	Val	Gly	Lys
		340					345						350		
Leu	Ile	Glu	Val	Val	Lys	Lys	Lys	Asn	Lys	Ala	Gly	Val	Ser	Val	Lys
	355					360						365			
Pro	Phe	Gln	Val	Lys	Asn	His	Ile	Trp	Val	Phe	Ile	Asn	Cys	Leu	Ile
	370				375						380				
Glu	Asn	Pro	Thr	Phe	Asp	Ser	Gln	Thr	Lys	Glu	Asn	Met	Thr	Leu	Gln
385				390						395					400
Pro	Lys	Ser	Phe	Gly	Ser	Lys	Cys	Gln	Leu	Ser	Glu	Lys	Phe	Phe	Lys
			405						410					415	
Ala	Ala	Ser	Asn	Cys	Gly	Ile	Val	Glu	Ser	Ile	Leu	Asn	Trp	Val	Lys
		420						425					430		
Phe	Lys	Ala	Gln	Thr	Gln	Leu	Asn	Lys	Lys	Cys	Ser	Ser	Val	Lys	Tyr
	435					440						445			
Ser	Lys	Ile	Lys	Gly	Ile	Pro	Lys	Leu	Asp	Asp	Ala	Asn	Asp	Ala	Gly
	450				455						460				
Gly	Lys	His	Ser	Leu	Glu	Cys	Thr	Leu	Ile	Leu	Thr	Glu	Gly	Asp	Ser
465				470						475					480
Ala	Lys	Ser	Leu	Ala	Val	Ser	Gly	Leu	Gly	Val	Ile	Gly	Arg	Asp	Arg
			485					490						495	
Tyr	Gly	Val	Phe	Pro	Leu	Arg	Gly	Lys	Ile	Leu	Asn	Val	Arg	Glu	Ala

690

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1010          1015          1020
Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp
1025          1030          1035          1040
Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met
          1045          1050          1055
Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu
          1060          1065          1070
Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp
          1075          1080          1085
Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys
- 1090          1095          1100
Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln
1105          1110          1115          1120
Asn Gln His Asp Asp Ser Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro
          1125          1130          1135
Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu
          1140          1145          1150
Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val
          1155          1160          1165
Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu
          1170          1175          1180
Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu
1185          1190          1195          1200
Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly
          1205          1210          1215
Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro
          1220          1225          1230
Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala
          1235          1240          1245
Ser Lys Lys Leu Leu Lys Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala
          1250          1255          1260
Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly
1265          1270          1275          1280
Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro
          1285          1290          1295
Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr
          1300          1305          1310
Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn
          1315          1320          1325
Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr
          1330          1335          1340
Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala
1345          1350          1355          1360
Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp
          1365          1370          1375
Ala Asp Asp Asp Asp Asp Asp Asn Asn Asp Leu Glu Glu Leu Lys Val
          1380          1385          1390
Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser
          1395          1400          1405
Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys
          1410          1415          1420
Ala Thr Pro Glu Lys Ser Leu His Asp Lys Lys Ser Gln Asp Phe Gly
1425          1430          1435          1440
Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser
          1445          1450          1455
Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro
          1460          1465          1470
Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala
          1475          1480          1485
Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg
          1490          1495          1500
Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp
1505          1510          1515          1520
Ser Glu Phe Gly Ile Pro Lys Lys Thr Thr Thr Pro Lys Gly Lys Gly

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          1525          1530          1535
Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp
          1540          1545          1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys
          1555          1560          1565
Lys Thr Ser Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Asp
          1570          1575          1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys
1585          1590          1595          1600
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Glu Asp Asp Val Asp
          1605          1610          1615
Phe Ala Met Phe Asn
          1620 1621

```

&lt;210&gt; 1162

&lt;211&gt; 73

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(73)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1162

```

Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
 1          5          10          15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn
          20          25          30
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr
          35          40          45
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr
          50          55          60
His His Cys Lys Ala His Ser Ser His
65          70          73

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&lt;210&gt; 1163

&lt;211&gt; 336

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1163

```

Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly
 1          5          10          15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr
          20          25          30
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr
          35          40          45
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp
          50          55          60
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg
65          70          75          80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala
          85          90          95

```

```

Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly
      100      105      110
Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val
      115      120      125
Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr
      130      135      140
Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile
      145      150      155      160
Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu
      165      170      175
Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys
      180      185      190
Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala
      195      200      205
Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly
      210      215      220
Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly
      225      230      235      240
Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr
      245      250      255
Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val
      260      265      270
Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu
      275      280      285
Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys
      290      295      300
Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala
      305      310      315      320
Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser
      325      330      335 336

```

&lt;210&gt; 1164

&lt;211&gt; 118

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(118)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1164

```

His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu
  1          5          10          15
Leu Lys Ser His Phe Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser
      20          25          30
Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys
      35          40          45
Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn
      50          55          60
Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys
      65          70          75          80
Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro
      85          90          95
Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val
      100          105          110
Val His His Gly Ser Gly

```

115 118

<210> 1165  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> X = any amino acid or stop code

<400> 1165  
 Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp  
 1 5 10 15  
 Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp  
 20 25 30  
 Asp Cys Gly His Ile Arg Phe Phe Ser Phe Ser Leu Ile Glu Gly Tyr  
 35 40 45  
 Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn  
 50 55 60  
 Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile  
 65 70 75 80  
 Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr  
 85 90 95  
 Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His  
 100 105 110  
 Arg Gln Ala Ala Ser Gln Val Thr Thr Thr Lys Gln Gly Gln Trp Leu  
 115 120 125  
 Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu  
 130 135 140  
 Gly \*  
 145

<210> 1166  
 <211> 84  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(84)  
 <223> X = any amino acid or stop code

<400> 1166  
 Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly  
 1 5 10 15  
 Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala  
 20 25 30  
 Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln  
 35 40 45  
 Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe  
 50 55 60  
 Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile

65  
Lys Ser Ile Lys  
84

70

75

80

<210> 1167  
<211> 112  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(112)  
<223> X = any amino acid or stop code

<400> 1167  
Glu Glu Pro Gln Gly Ser Pro Ile Trp Val Trp Leu Ala Gly Ser Leu  
1 5 10 15  
Thr Ser Val Ser Cys Phe Leu Pro Phe Gln Arg Met Arg Ile Lys Pro  
20 25 30  
His Gln Gly Gln Tyr Ile Gly Glu Met Ser Phe Leu Gln His His Lys  
35 40 45  
Gly Glu Cys Arg Pro Gln Lys Asp Xaa Ala Arg Gln Glu Asn Pro Cys  
50 55 60  
Gly Pro Cys Ser Glu Arg Arg Lys His Leu Leu Gly Gln Asp Pro Lys  
65 70 75 80  
Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg  
85 90 95  
Pro Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg  
100 105 110 112

<210> 1168  
<211> 319  
<212> Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(319)  
<223> X = any amino acid or stop code

<400> 1168  
Thr Leu Trp Ala Gly Pro Gly Leu Cys Pro Gln Ser His Ser Ser Ser  
1 5 10 15  
Ser Val Pro Ala Pro Trp Glu Pro His Val Glu Arg Ala Leu Arg Thr  
20 25 30  
Asp Arg Asn Gln Gly Gln Arg Pro Leu Leu Ser Ala Ser Trp Ala Pro  
35 40 45  
Ala Pro Ala Arg Pro Leu Phe Leu Thr Ser Pro Val Leu Leu Pro Lys  
50 55 60  
Ser Arg Ala Ile Pro Ala Ala Arg Asp Pro Ser Xaa Ala Gly Ile Phe  
65 70 75 80  
Cys Leu Leu Glu Met Ala Gly Gly Gln Ala Ser Val Val Ile Ile Gly

```

      85      90      95
Ser Ala Gly Val Leu Gly Cys Arg Trp Gly Ser Ser Gly Lys Ser His
      100      105      110
Ser Leu Ser Pro Ser Arg Lys Gly Asn Leu His Leu Leu Ser Gln Glu
      115      120      125
Pro Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser
      130      135      140
Thr Glu Ser Cys Asn Thr Thr Thr Glu Asp Glu Asp Leu Lys Val Arg
      145      150      155      160
Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn
      165      170      175
Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr
      180      185      190
Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe
      195      200      205
His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile
      210      215      220
Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Leu Thr Phe
      225      230      235      240
Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu
      245      250      255
Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala
      260      265      270
Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser
      275      280      285
Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu
      290      295      300
Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly
      305      310      315      319

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&lt;210&gt; 1169

&lt;211&gt; 96

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1169

```

Glu Arg Ala Gly Ala Gly Gly Ala Ala Ala Cys Arg Ala Gly Thr Arg
  1      5      10      15
Ser Gly Ala Thr Ser Arg Thr Pro Trp Pro Leu His Arg Gln Leu Ser
      20      25      30
Met Met Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met
      35      40      45
Gly Thr Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln
      50      55      60
Ser Arg Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln
      65      70      75      80
Gly His Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Gly Gly
      85      90      95      96

```

&lt;210&gt; 1170

&lt;211&gt; 145

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature